

Complete Fixture consists of Decorative Element, Reflector Trim, Installation Ring and Gear Harness. Each sold separately.

4 Piece Ordering System, Example: D4A02CE + 8011CL + C4XRM + BKFEU18

Compact Fluorescent

Decorative Element	Reflector Trim	Installation Ring	Gear Harness	Lamp Data	Dimensions		
					A	B	C
D4A02CE	8011CL	C4XRM Matte White	BKFEU18	18W Triple Tube	89mm	152mm	44mm
D6A02CE	8021CL	C6XRM Matte White	BKFEU26-32	26 or 32W Triple Tube	102mm	191mm	48mm
D7A02CE	8022CL	C7XRM Matte White	BKFEU26-42	26, 32 or 42W Triple Tube	124mm	229mm	51mm

Metal Halide

Decorative Element	Reflector Trim	Installation Ring	Gear Harness	Lamp Data	Dimensions		
					A	B	C
D4A02CE	C4T4VWCL	C4XRM Matte White	BKT4U39	CDM-TC G8.5 39W	89mm	152mm	44mm
D6A02CE	C6T6VWCL	C6XRM Matte White	BKT6U39	CDM-T G12 39W	102mm	191mm	48mm

Low Voltage

Decorative Element	Reflector Trim	Installation Ring	Gear Harness	Lamp Data	Dimensions		
					A	B	C
D4A02CE	C4MRDVCLEXP	C4XRM Matte White	TKEU75	MR16 12v GU5.3 50W Max	89mm	152mm	44mm

Features

- Decorative Element:** Solid high temp, UV resistant composite with open aperture; frosted interior diameter; polished exterior and machined facet along bottom edge.
- Die Cast Construction Ring:** Exterior edge of construction ring is visible, satin aluminum finish matches diameter of decorative element for a flangeless appearance.
- Reflector:** Use Specular Clear (CL) finish for best performance and aesthetics. ORDER SEPARATELY. See separate specification sheet for details.
- Installation Ring:** Cast aluminum ring is painted and has two 17ga. stainless steel springs that engage in upright position during installation. One touch snap action secures ring in ceiling cutout. ORDER SEPARATELY. See separate specification sheet for details.
- Gear Harness:** Electronic 240V, 50/60V Hz transformer (not shown) with lamp socket, socket cup, and wiring harness. ORDER SEPARATELY. See separate specification sheet for details.

Certifications and Ratings



Job Information

Type:

Job Name:

Cat. No.:

Lamp(s):

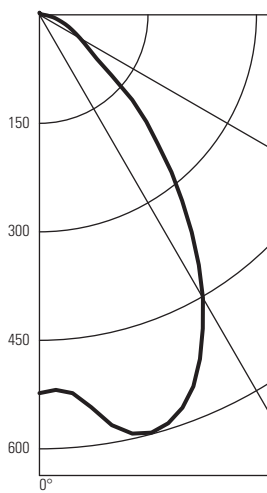
Notes:

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8021CL-D6A02



Calculate 6" Recessed Vetro Downlight, Cat.# 8021CL/D6A02
32W G.E. Biax T/E Triple Tube (Lower Position).
Lumen Rating = 2200 LMS. Universal Ballast #C2642UNVBES

Candlepower Summary

Angle	Mean CP	LMS.	Angle	Mean CP	LMS.
0	523		90	6	
5	525	51	95	4	4
10	576		100	2	
15	598	167	105	2	2
20	578		110	2	
25	525	241	115	2	2
30	452		120	2	
35	367	231	125	2	2
40	284		130	2	
45	209	161	135	2	2
50	130		140	2	
55	85	82	145	2	1
60	65		150	2	
65	50	50	155	2	1
70	38		160	2	
75	27	29	165	2	1
80	19		170	2	
85	11	13	175	2	0
90	6		180	3	

Coefficients of Utilization

Ceiling	80%			70%			50%			30%			10%					
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%																	
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%																	
0	.56	.56	.56	.56	.55	.55	.55	.55	.52	.52	.52	.50	.50	.50	.48	.48	.48	.47
1	.53	.51	.50	.48	.52	.50	.49	.47	.48	.47	.46	.46	.45	.44	.44	.44	.43	.42
2	.49	.47	.45	.42	.48	.46	.44	.42	.44	.42	.41	.43	.41	.40	.41	.40	.39	.38
3	.46	.43	.40	.38	.45	.42	.39	.37	.41	.38	.37	.39	.38	.36	.38	.37	.35	.34
4	.44	.39	.36	.34	.43	.39	.36	.34	.38	.35	.33	.37	.34	.33	.36	.34	.32	.31
5	.41	.36	.33	.31	.40	.36	.33	.30	.35	.32	.30	.34	.31	.30	.33	.31	.29	.29
6	.38	.33	.30	.28	.38	.33	.30	.28	.32	.29	.27	.31	.29	.27	.31	.28	.27	.26
7	.36	.31	.27	.25	.35	.30	.27	.25	.30	.27	.25	.29	.26	.24	.28	.26	.24	.24
8	.34	.28	.25	.23	.33	.28	.25	.23	.27	.25	.23	.27	.24	.22	.26	.24	.22	.21
9	.31	.26	.23	.21	.31	.26	.23	.21	.25	.22	.20	.25	.22	.20	.24	.22	.20	.19
10	.29	.24	.21	.19	.29	.24	.21	.19	.23	.21	.19	.23	.20	.18	.23	.20	.18	.18

Determined In Accordance With Current IES Published Procedures
Luminaire Input Watts = 33.0

Zonal Lumens and Percentages

Zone	Lumens	% Lamp	%Luminaire	Luminaire Summary - CD. / SQ. M.	
				Angle	Mean CD/SQ M
0-30	458	20.84	44.11	45	16270
0-40	689	31.34	66.32	55	8129
0-60	932	42.39	89.69	65	6536
0-90	1024	46.59	98.57	75	5836
40-90	335	15.24	32.25	85	6821
60-90	92	4.20	8.89		
90-180	14	.67	1.43		
0-180	1039	47.26	100.00		

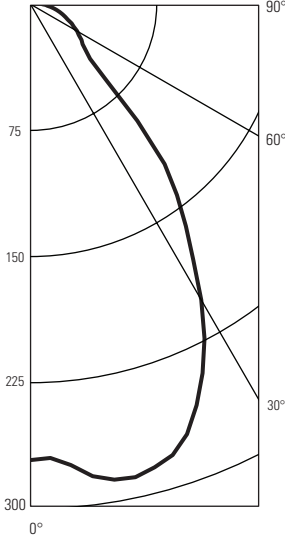
Certified test report no. 3495FR
Computed by LSI program **TEST-LITE**
SC = 1.2

** Efficiency = 47.3% **

Prepared For:
Lightolier
Fall River, MA

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

8011CL-D4A02



Calculate 4" Dia. Vetro Downlight, Cat.# 8011CL/D4A02
18W G.E. Biax T/E Triple Tube. Lumen Rating = 1200 LMS.
Universal Ballast #C218UNVBES

Candlepower Summary

Angle	Mean CP	Lumens
0	271	
5	275	26
10	287	
15	285	80
20	272	
25	242	111
30	203	
35	161	102
40	124	
45	63	57
50	43	
55	37	33
60	32	
65	27	27
70	22	
75	18	19
80	14	
85	10	11
90	7	

Coefficients of Utilization

Ceiling	80%			70%			50%			30%			10%					
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	0			
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%																	
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%																	
0	.46	.46	.46	.46	.45	.45	.45	.45	.43	.43	.43	.41	.41	.41	.40	.40	.40	.39
1	.43	.42	.41	.40	.42	.41	.40	.39	.39	.39	.38	.38	.37	.37	.37	.36	.36	.35
2	.41	.38	.36	.35	.40	.38	.36	.34	.36	.35	.33	.35	.34	.33	.34	.33	.32	.31
3	.38	.35	.33	.31	.37	.34	.32	.31	.33	.32	.30	.32	.31	.30	.32	.30	.29	.28
4	.36	.32	.30	.28	.35	.32	.30	.28	.31	.29	.27	.30	.28	.27	.29	.28	.27	.26
5	.34	.30	.27	.25	.33	.29	.27	.25	.29	.27	.25	.28	.26	.25	.27	.26	.24	.24
6	.32	.28	.25	.23	.31	.27	.25	.23	.27	.24	.23	.26	.24	.23	.26	.24	.22	.22
7	.30	.26	.23	.21	.29	.25	.23	.21	.25	.22	.21	.24	.22	.21	.24	.22	.20	.20
8	.28	.24	.21	.19	.28	.23	.21	.19	.23	.21	.19	.23	.21	.19	.22	.20	.19	.18
9	.26	.22	.19	.18	.26	.22	.19	.18	.21	.19	.17	.21	.19	.17	.21	.19	.17	.17
10	.25	.21	.18	.16	.24	.20	.18	.16	.20	.18	.16	.20	.17	.16	.19	.17	.16	.15

Determined in Accordance with Current IES Published Procedures
Luminaire Input Watts = 23.0

Zonal Lumens and Percentages

Zone	Lumens	% Lamp	%Luminaire	Luminaire Summary - CD. / SQ. M.	
				Angle	Mean CD/SQ M
0-30	217	18.12	46.65		
0-40	319	26.60	68.52		
0-60	408	34.08	87.76		
0-90	465	38.83	100.00		
40-90	146	12.22	31.48		
60-90	57	4.75	12.24		
90-180	0	.00	.00		
0-180	465	38.83	100.00		

Certified test report no. 3558FR

Computed by LSI program **TEST-LITE**
SC = 1.1

Prepared For:
Lightolier
Fall River, MA

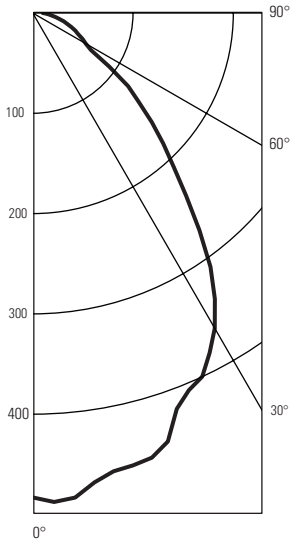
** Efficiency = 38.8% **

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

Job Information Type:

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8031CL-D6A02



Calculate 6" Dia. Recessed Horizontal Vetro Downlight,
Cat.# 8031CL/D6A02
32W Sylvania Dulux T/E Triple Tube.
Lumen Rating = 2400 LMS. Universal Ballast #C2642UNVBES(#1)

Candlepower Summary

Angle	Along	22.5	45	67.5	Across	Output Lumens
0	483	483	483	483	483	
5	485	489	496	501	479	47
10	464	473	493	497	471	
15	459	460	466	460	434	129
20	420	435	430	421	410	
25	400	411	384	406	403	185
30	363	379	371	377	365	
35	309	320	335	360	349	202
40	238	229	233	259	255	
45	184	181	170	159	149	138
50	138	139	138	133	122	
55	93	94	97	97	91	88
60	61	64	66	67	65	
65	50	52	54	55	53	53
70	41	42	44	44	42	
75	32	33	34	34	32	35
80	23	24	25	25	24	
85	16	16	17	17	16	18
90	10	10	10	10	9	

Coefficients of Utilization

Ceiling	80%				70%				50%				30%				10%				
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%																				
Room Cavity Ratio	0	.44	.44	.44	.44	.43	.43	.43	.43	.41	.41	.41	.41	.40	.40	.40	.40	.38	.38	.38	.37
	1	.42	.40	.39	.38	.41	.39	.38	.37	.38	.37	.36	.36	.36	.36	.35	.35	.35	.34	.34	.33
	2	.39	.36	.35	.33	.38	.36	.34	.32	.34	.33	.32	.33	.32	.31	.32	.31	.32	.31	.30	.30
	3	.36	.33	.31	.29	.35	.33	.30	.29	.32	.30	.28	.31	.29	.28	.28	.27	.30	.28	.27	.27
	4	.34	.30	.28	.26	.33	.30	.28	.26	.29	.27	.25	.28	.26	.25	.27	.26	.25	.26	.25	.24
	5	.32	.28	.25	.23	.31	.27	.25	.23	.27	.24	.23	.26	.24	.23	.25	.24	.22	.22	.22	.22
	6	.30	.26	.23	.21	.29	.25	.23	.21	.25	.22	.21	.24	.22	.20	.23	.22	.20	.20	.20	.20
	7	.28	.23	.21	.19	.27	.23	.20	.19	.22	.20	.18	.22	.20	.18	.22	.20	.18	.22	.20	.18
	8	.26	.21	.19	.17	.25	.21	.19	.17	.21	.18	.17	.20	.18	.17	.20	.18	.17	.20	.18	.16
	9	.24	.20	.17	.15	.24	.20	.17	.15	.19	.17	.15	.19	.17	.15	.18	.16	.15	.18	.16	.15
	10	.23	.18	.16	.14	.22	.18	.16	.14	.18	.15	.14	.17	.15	.14	.17	.15	.14	.17	.15	.14

Determined in Accordance with Current IES Published Procedures
Luminaire Input Watts = 36.0

Zonal Lumens and Percentages

Zone	Lumens	% Lamp	% Luminaire
0-30	360	15.03	40.29
0-40	562	23.45	62.84
0-60	788	32.87	88.08
0-90	895	37.32	100.00
40-90	332	13.87	37.16
60-90	106	4.45	11.92
90-180	0	.00	.00
0-180	895	37.32	100.00

Certified test report no. 3534FR

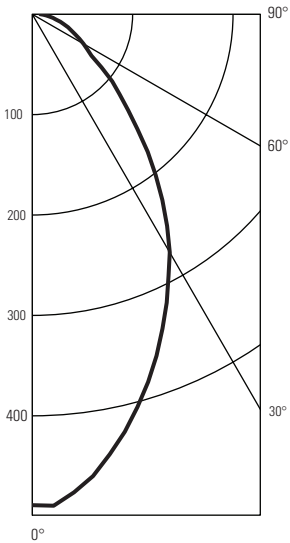
Computed by LSI program **TEST-LITE**
SC = 1.1

Prepared For:
Lightolier
Fall River, MA

** Efficiency = 37.3% **

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

8091CL-D6A02



Calculate 6" dia. Vetro Downlight,
Cat.# 8091CL/D6A02 Opal Lens
32W Sylvania Dulux T/E Triple Tube.
Lumen Rating = 2400 LMS. Universal Ballast #C2642UNVBES(#1)

Candlepower Summary

Angle	Along	22.5	45	67.5	Across	Output Lumens
0	489	489	489	489	489	
5	466	469	471	474	478	45
10	432	435	438	441	445	
15	390	393	398	401	405	112
20	345	348	354	358	362	
25	298	300	306	312	317	142
30	251	253	258	267	274	
35	208	207	212	222	226	135
40	168	168	171	176	179	
45	132	133	132	133	135	105
50	101	102	102	102	104	
55	68	70	69	69	72	67
60	55	58	57	57	59	
65	45	46	46	46	47	46
70	36	37	37	37	38	
75	27	28	28	28	29	30
80	19	20	20	20	21	
85	13	13	13	13	14	15
90	8	8	8	8	8	

Coefficients of Utilization

Ceiling	80%				70%				50%				30%				10%				
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	
Wall	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%																				
Room Cavity Ratio	0	.35	.35	.35	.35	.34	.34	.34	.34	.32	.32	.32	.31	.31	.31	.31	.30	.30	.30	.29	.29
	1	.32	.31	.30	.29	.32	.31	.30	.29	.29	.29	.28	.28	.28	.27	.27	.27	.27	.27	.26	.26
	2	.30	.28	.27	.26	.30	.28	.26	.25	.27	.26	.25	.26	.25	.24	.25	.24	.25	.24	.24	.23
	3	.28	.26	.24	.22	.28	.25	.24	.22	.25	.23	.22	.24	.23	.22	.23	.22	.23	.22	.21	.21
	4	.26	.24	.22	.20	.26	.23	.22	.20	.23	.21	.20	.22	.21	.20	.21	.20	.21	.20	.19	.19
	5	.25	.22	.20	.18	.24	.21	.19	.18	.21	.19	.18	.20	.19	.18	.20	.19	.18	.20	.19	.17
	6	.23	.20	.18	.16	.23	.20	.18	.16	.19	.18	.16	.19	.17	.16	.18	.17	.16	.18	.17	.15
	7	.22	.18	.16	.15	.21	.18	.16	.15	.18	.16	.15	.17	.16	.15	.17	.16	.15	.17	.16	.14
	8	.20	.17	.15	.14	.20	.17	.15	.13	.16	.15	.13	.16	.15	.13	.16	.14	.13	.16	.14	.13
	9	.19	.16	.14	.12	.19	.16	.14	.12	.15	.13	.12	.15	.13	.12	.15	.13	.12	.15	.13	.12
	10	.18	.15	.13	.11	.18	.14	.13	.11	.14	.12	.11	.14	.12	.11	.14	.12	.11	.14	.12	.11

Determined in Accordance with Current IES Published Procedures
Luminaire Input Watts = 38.0

Zonal Lumens and Percentages

Zone	Lumens	% Lamp	% Luminaire
0-30	298	12.45	42.90
0-40	434	18.09	62.32
0-60	605	25.23	86.93
0-90	696	29.03	100.00
40-90	262	10.94	37.68
60-90	91	3.79	13.07
90-180	0	.00	.00
0-180	696	29.03	100.00

Certified test report no. 3518FR

Computed by LSI program **TEST-LITE**
SC = .9

Prepared For:
Lightolier
Fall River, MA

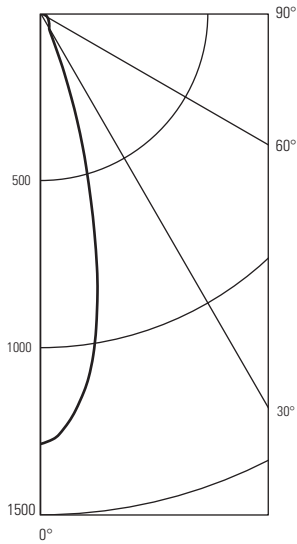
** Efficiency = 29.0% **

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

Job Information Type:

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C3MRDCLW /D3MR02



Calculate 4" dia. Vetro Downlight,
Cat.# C3MRDCLW/D3MR02
50W G.E. Biax T/E Triple Tube. Lumen Rating = 1200 LMS.
Universal Ballast #C218UNVBES

Candlepower Summary

Angle	Mean CP	Lumens
0	1288	
5	1193	110
10	956	
15	582	169
20	269	
25	88	57
30	51	
35	45	28
40	40	
45	35	27
50	31	
55	27	24
60	23	
65	20	20
70	17	
75	13	14
80	11	
85	7	8
90	6	

Coefficients of Utilization

Ceiling	80%				70%				50%				30%				10%			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%																			
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%																			
0	.68	.68	.68	.68	.67	.67	.67	.67	.64	.64	.64	.64	.61	.61	.61	.61	.59	.59	.59	.59
1	.65	.64	.62	.61	.64	.62	.61	.60	.60	.59	.58	.58	.58	.57	.56	.56	.56	.55	.55	.54
2	.62	.60	.57	.55	.61	.58	.56	.55	.57	.55	.54	.54	.55	.54	.52	.52	.53	.52	.51	.50
3	.59	.56	.54	.51	.58	.55	.53	.51	.54	.52	.50	.50	.53	.51	.49	.49	.51	.50	.49	.48
4	.57	.53	.51	.48	.56	.53	.50	.48	.52	.49	.48	.48	.51	.49	.47	.47	.49	.48	.47	.46
5	.55	.51	.48	.46	.54	.50	.48	.46	.49	.47	.45	.45	.48	.46	.45	.45	.48	.46	.44	.44
6	.53	.49	.46	.44	.52	.48	.46	.44	.48	.45	.43	.43	.47	.45	.43	.43	.46	.44	.43	.42
7	.51	.47	.44	.42	.51	.47	.44	.42	.46	.43	.42	.42	.45	.43	.41	.41	.45	.43	.41	.41
8	.50	.45	.42	.41	.49	.45	.42	.40	.44	.42	.40	.40	.44	.42	.40	.40	.43	.41	.40	.39
9	.48	.44	.41	.39	.48	.43	.41	.39	.43	.41	.39	.39	.43	.40	.39	.39	.42	.40	.39	.38
10	.47	.42	.40	.38	.46	.42	.40	.38	.42	.39	.38	.38	.41	.39	.38	.38	.41	.39	.38	.37

Determined in Accordance with Current IES Published Procedures
Luminaire Input Watts = 52.0

Zonal Lumens and Percentages

Zone	Lumens	% Lamp	%Luminaire
0-30	337	42.14	73.32
0-40	365	45.70	79.51
0-60	416	52.10	90.65
0-90	459	57.47	100.00
40-90	94	11.78	20.49
60-90	43	5.38	9.35
90-180	0	.00	.00
0-180	459	57.47	100.00

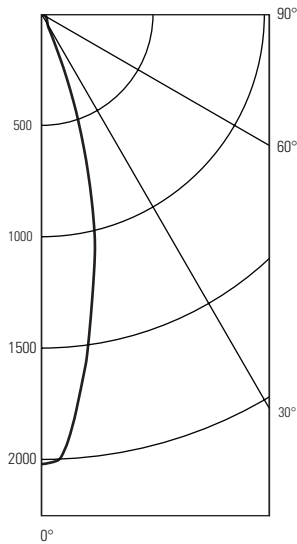
Certified test report no. 3565FR
Computed by LSI program
TEST-LITE
SC = .5

Prepared For:
Lightolier
Fall River, MA

** Efficiency = 57.5% **

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

C4MR02



Calculate 4" Dia. Vetro Recessed Downlight,
Cat.# D4MR02
50W G.E. Mr16 NFL (25 deg.) Lamp.
Lumen Rating = 800 LMS. Lighttech XFMR LET-75

Candlepower Summary

Angle	Mean CP	Lumens
0	2021	
5	1786	165
10	1305	
15	870	245
20	418	
25	109	80
30	54	
35	45	29
40	38	
45	33	26
50	29	
55	25	23
60	23	
65	19	19
70	16	
75	13	14
80	10	
85	7	8
90	6	

Coefficients of Utilization

Ceiling	80%				70%				50%				30%				10%			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
Wall	Zonal Cavity Method - Effective Floor Reflectance = 20%																			
RCR	Zonal Cavity Method - Effective Floor Reflectance = 20%																			
0	.91	.91	.91	.91	.88	.88	.88	.88	.85	.85	.85	.85	.81	.81	.81	.81	.78	.78	.78	.78
1	.87	.85	.83	.82	.85	.83	.82	.80	.80	.79	.78	.77	.77	.76	.76	.76	.75	.74	.73	.72
2	.83	.80	.78	.75	.82	.79	.76	.74	.76	.74	.73	.74	.73	.71	.71	.71	.72	.71	.70	.69
3	.80	.76	.73	.71	.79	.75	.72	.70	.73	.71	.69	.72	.70	.68	.68	.68	.70	.68	.67	.66
4	.78	.73	.70	.67	.77	.72	.69	.67	.71	.68	.66	.69	.67	.65	.65	.65	.68	.66	.65	.64
5	.75	.70	.67	.64	.74	.70	.66	.64	.68	.65	.63	.67	.65	.63	.63	.63	.66	.64	.62	.61
6	.73	.68	.64	.62	.72	.67	.64	.62	.66	.63	.61	.65	.63	.61	.61	.61	.64	.62	.60	.60
7	.71	.65	.62	.60	.70	.65	.62	.59	.64	.61	.59	.63	.61	.59	.59	.59	.63	.60	.59	.58
8	.69	.63	.60	.58	.68	.63	.60	.58	.62	.59	.57	.62	.59	.57	.57	.57	.61	.59	.57	.56
9	.67	.62	.59	.56	.66	.61	.58	.56	.61	.58	.56	.60	.58	.56	.56	.56	.60	.57	.56	.55
10	.65	.60	.57	.55	.65	.60	.57	.55	.59	.56	.54	.59	.56	.54	.54	.54	.58	.56	.54	.53

Determined in Accordance with Current IES Published Procedures
Luminaire Input Watts = 52.0

Zonal Lumens and Percentages

Zone	Lumens	% Lamp	%Luminaire
0-30	489	61.24	80.47
0-40	518	64.81	85.16
0-60	566	70.87	93.12
0-90	608	76.11	100.00
40-90	90	11.29	14.84
60-90	41	5.24	6.88
90-180	0	.00	.00
0-180	608	76.11	100.00

Certified test report no. 3601FR
Computed by LSI program
TEST-LITE
SC = .4

Prepared For:
Lightolier
Fall River, MA

** Efficiency = 76.1% **

Tested According to IES Procedures. Test Distance Exceeds Five Times the Greatest Luminous Opening of Luminaire.

Job Information Type:

631 Airport Road, Fall River, MA 02720 • (508) 679-8131 • Fax (508) 674-4710
We reserve the right to change details of design, materials and finish.
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