

Scaled data based on original data using
LM-66-11 Electrical and Photometric Measurements of Single-Ended Compact
Fluorescent Lamps

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: SHAPER

Report Number: 19431B

Luminaire Tested: **434-SH-16-CF1/42**

Issue Date: 3/3/2020

Test Information

Test Method: LM-66-11
Report Number: 19431B
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: SHAPER
Catalog Number: 434-SH-16-CF1/42
Description: INTERIOR SUSPENDED LUMINAIRE WITH WHITE GLASS GLOBE LENS

Light Source: ONE 42 WATT CPFL LAMP. LUMEN RATING = 3200 LMS.

Ballast/Driver: -

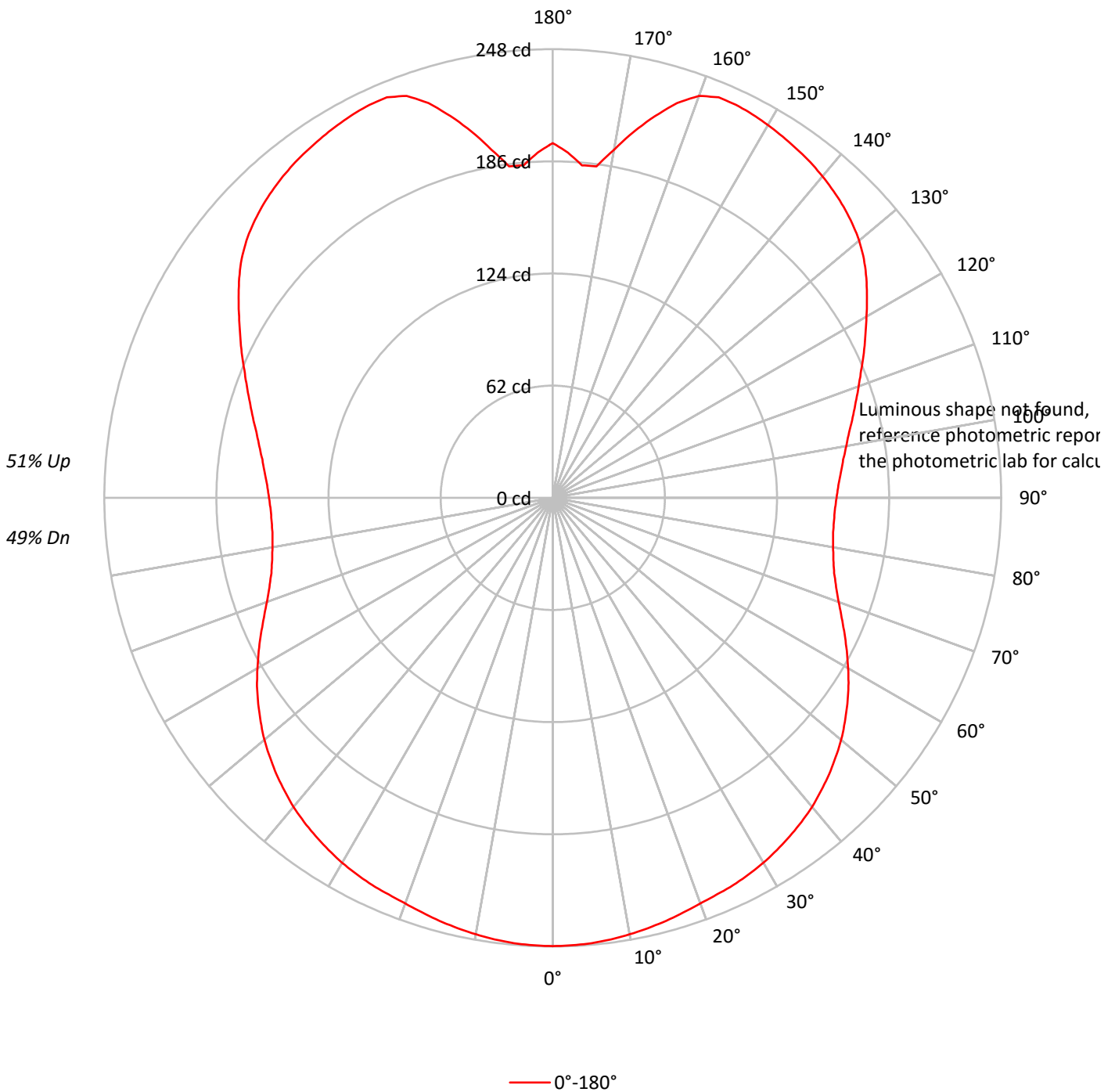
Summary

Lumens per Lamp: 3200 (1 lamp)
Luminaire Lumens: 2456.6 lumens
Efficiency: 76.8%
Efficacy: -
Spacing Criteria (0/90/45): 1.42 / 1.42 / 1.59
Luminous Opening: (L: 0 ' x W: -0.08 ' x H: 0.67 '
CIE Type: General Diffuse

Input Watts (W): 0
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





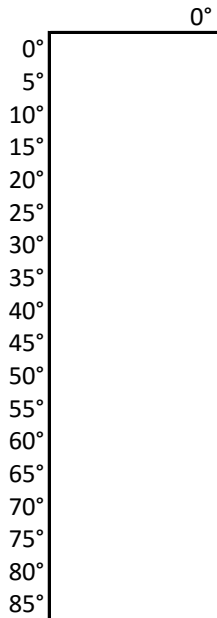
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	82	82	82	82	76	76	76	76	64	64	64		53	53	53		43	43	43	38
1	72	68	64	61	66	62	59	56	52	49	47		42	41	39		34	32	31	27
2	65	58	52	48	59	53	48	44	44	40	37		36	33	31		28	26	24	21
3	59	50	44	39	54	46	40	36	38	34	30		31	28	25		24	22	20	16
4	53	44	37	32	49	41	34	30	34	29	25		27	24	21		21	19	16	14
5	49	39	32	27	44	36	30	25	30	25	21		24	21	18		19	16	14	11
6	45	35	28	23	41	32	26	22	27	22	18		22	18	15		17	14	12	10
7	41	31	25	20	38	29	23	19	24	19	16		20	16	13		16	13	11	8
8	38	28	22	18	35	26	20	16	22	17	14		18	14	12		14	11	9	7
9	36	26	20	15	33	24	18	14	20	15	12		16	13	10		13	10	8	7
10	33	23	18	14	30	22	16	13	18	14	11		15	12	9		12	9	7	6

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	23.5	1.0	0.7
10°-20°	68.5	2.8	2.1
20°-30°	109.2	4.4	3.4
30°-40°	143.3	5.8	4.5
40°-50°	167.0	6.8	5.2
50°-60°	178.1	7.2	5.6
60°-70°	176.7	7.2	5.5
70°-80°	171.1	7.0	5.3
80°-90°	170.6	6.9	5.3
90°-100°	174.8	7.1	5.5
100°-110°	181.8	7.4	5.7
110°-120°	188.3	7.7	5.9
120°-130°	189.4	7.7	5.9
130°-140°	175.8	7.2	5.5
140°-150°	147.7	6.0	4.6
150°-160°	110.6	4.5	3.5
160°-170°	62.3	2.5	1.9
170°-180°	18.0	0.7	0.6
0°-30°	201.2	8.2	6.3
0°-40°	344.4	14.0	10.8
0°-60°	689.6	28.1	21.5
0°-90°	1208.0	49.2	37.7
90°-120°	544.9	22.2	17.0
90°-150°	1057.8	43.1	33.1
90°-180°	1249.0	50.8	39.0
0°-180°	2456.6	100.0	76.8

CANDELA DISTRIBUTION:

	0°	Flux
0°	248	
5°	247	24
15°	242	68
25°	236	109
35°	228	143
45°	216	167
55°	199	178
65°	178	177
75°	161	171
85°	156	128
90°	157	86
95°	160	132
105°	172	182
115°	190	188
125°	212	189
135°	228	176
145°	235	148
155°	240	111
165°	218	62
175°	184	18
180°	196	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	247.8
2.5°	247.6
5°	247.1
7.5°	246.2
10°	245.0
12.5°	243.6
15°	242.1
17.5°	240.3
20°	238.6
22.5°	237.3
25°	236.2
27.5°	234.7
30°	232.9
32.5°	230.8
35°	228.4
37.5°	225.9
40°	223.1
42.5°	219.6
45°	216.1
47.5°	212.2
50°	208.2
52.5°	203.6
55°	198.8
57.5°	193.9
60°	188.6
62.5°	183.3
65°	178.0
67.5°	172.9
70°	168.2
72.5°	164.3
75°	161.1
77.5°	158.9
80°	157.4
82.5°	156.3
85°	156.0
87.5°	156.1
90°	156.9
92.5°	158.1
95°	159.9
97.5°	162.0
100°	164.8
102.5°	167.8
105°	171.7
107.5°	175.6
110°	180.0

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CANDELA DISTRIBUTION (continued):

	0°
112.5°	184.6
115°	189.8
117.5°	194.9
120°	200.3
122.5°	206.0
125°	211.7
127.5°	216.9
130°	221.2
132.5°	224.6
135°	227.5
137.5°	229.9
140°	232.0
142.5°	233.9
145°	235.3
147.5°	236.7
150°	237.9
152.5°	239.0
155°	239.7
157.5°	239.6
160°	236.4
162.5°	228.8
165°	218.4
167.5°	207.4
170°	195.4
172.5°	184.7
175°	184.5
177.5°	191.0
180°	196.1

(END OF REPORT)