

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: 01275

Luminaire Tested: **INDCPP60**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 01275
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: INDCPP60
Description: FAIL-SAFE CAST ALUMINUM HOUSING
FORMED WHITE ENAMEL REFLECTOR
CLEAR PLASTIC ENCLOSURE
Light Source: 60 WATT T-10 INCANDESCENT RATED 745 LUMENS
Ballast/Driver: -

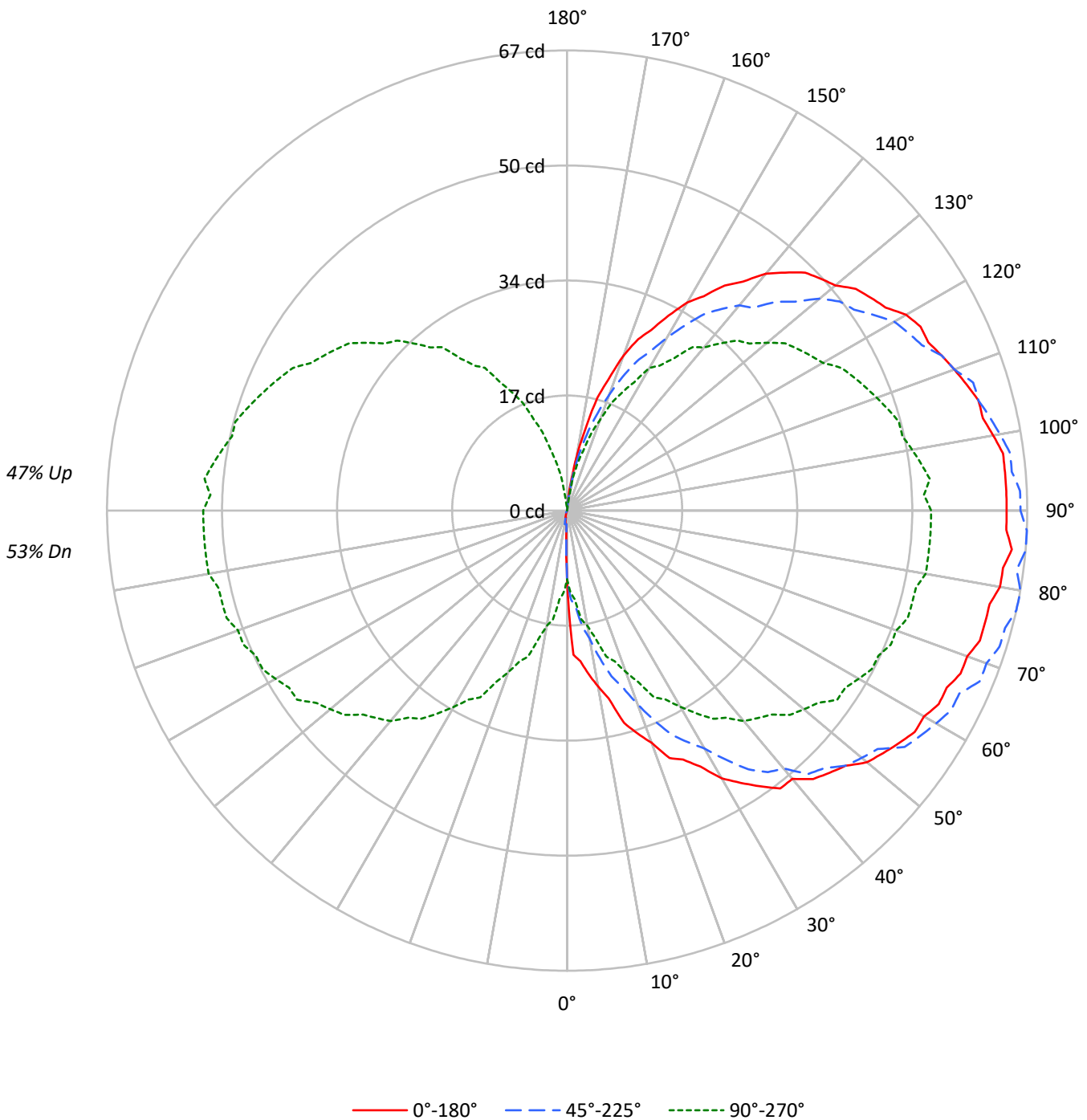
Summary

Lumens per Lamp: 745 (1 lamp)
Luminaire Lumens: 413.7 lumens
Efficiency: 55.5%
Efficacy: 7.1 lumens/watt
Spacing Criteria (0/90/45): 3.02 / 3.81 / 3.16
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.21' x H: 0.94')
CIE Type: General Diffuse

Input Watts (W): 58
Input Voltage (V): NR
Input Current (A_{in}): 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										
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	50	30	10	50	30	10	0														
RCR																																						
0	60	60	60	60	55	55	55	55	47	47	47	40	40	40	33	33	33	30						30														
1	52	48	45	42	47	44	41	38	37	35	32	30	28	27	24	23	22	19						19														
2	46	40	35	31	42	37	33	29	31	27	24	25	22	20	19	18	16	13						13														
3	41	34	29	25	37	31	27	23	26	22	19	21	18	16	16	14	12	10						10														
4	37	30	24	20	34	27	22	19	22	19	16	18	15	13	14	12	10	8						8														
5	34	26	21	17	31	24	19	15	20	16	13	16	13	10	12	10	8	6						6														
6	31	23	18	14	28	21	16	13	18	14	11	14	11	9	11	9	7	5						5														
7	28	21	16	12	26	19	14	11	16	12	9	13	10	7	10	7	6	4						4														
8	26	19	14	10	24	17	13	10	14	11	8	11	9	6	9	7	5	3						3														
9	24	17	12	9	22	15	11	8	13	9	7	10	8	6	8	6	4	3						3														
10	23	15	11	8	21	14	10	7	12	8	6	10	7	5	8	5	4	3						3														

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	1281	1281	1281
5°	2034	1387	185
10°	1891	1564	73
15°	1930	1791	60
20°	1867	1837	0
25°	1832	2024	0
30°	1858	2072	0
35°	1854	2188	0
40°	1794	2251	0
45°	1787	2272	0
50°	1794	2360	0
55°	1783	2462	0
60°	1757	2477	0
65°	1745	2510	0
70°	1747	2563	0
75°	1762	2635	0
80°	1790	2730	0
85°	1832	2797	0



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	1.1	0.3	0.1	0°	10	10	10	10	10	
10°-20°	4.8	1.2	0.6	5°	22	14	13	2	2	2
20°-30°	10.6	2.6	1.4	15°	32	25	22	1	1	9
30°-40°	17.9	4.3	2.4	25°	40	36	30	1	0	19
40°-50°	25.6	6.2	3.4	35°	49	46	37	0	0	31
50°-60°	32.9	8.0	4.4	45°	54	53	42	0	0	42
60°-70°	38.9	9.4	5.2	55°	59	60	48	0	0	53
70°-80°	43.0	10.4	5.8	65°	61	63	50	0	0	61
80°-90°	45.0	10.9	6.0	75°	63	66	52	0	0	67
90°-100°	44.3	10.7	5.9	85°	65	67	53	0	0	53
100°-110°	40.8	9.9	5.5	90°	64	66	53	0	0	35
110°-120°	35.5	8.6	4.8	95°	64	65	53	0	0	52
120°-130°	28.8	7.0	3.9	105°	62	62	50	0	0	65
130°-140°	21.2	5.1	2.8	115°	58	57	46	0	0	58
140°-150°	13.7	3.3	1.8	125°	54	51	41	0	0	48
150°-160°	7.1	1.7	1.0	135°	49	43	35	0	0	38
160°-170°	2.2	0.5	0.3	145°	40	35	27	0	0	25
170°-180°	0.1	0.0	0.0	155°	29	24	19	0	0	14
0°-30°	16.5	4.0	2.2	165°	17	12	9	0	0	5
0°-40°	34.4	8.3	4.6	175°	2	1	0	0	0	0
0°-60°	93.0	22.5	12.5	180°	0	0	0	0	0	
0°-90°	219.9	53.2	29.5							
90°-120°	120.6	29.2	16.2							
90°-150°	184.3	44.6	24.7							
90°-180°	194.0	46.9	26.0							
0°-180°	413.7	100.0	55.5							



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	10	10	10	10	10	10	10	10	10
2.5°	21	12	13	12	12	12	2	3	2
5°	22	15	14	14	13	13	2	2	2
7.5°	24	17	17	16	16	14	2	2	2
10°	26	19	19	19	17	15	2	1	1
12.5°	28	22	22	21	19	17	1	1	1
15°	32	26	25	25	22	19	1	1	1
17.5°	34	28	27	26	23	20	1	0	0
20°	36	32	30	30	25	22	1	0	0
22.5°	39	35	33	31	27	24	1	0	0
25°	40	37	36	34	30	25	1	0	0
27.5°	42	40	38	36	31	27	1	0	0
30°	45	43	40	38	33	28	1	0	0
32.5°	47	45	43	40	35	30	0	0	0
35°	49	47	46	41	37	32	0	0	0
37.5°	51	50	48	44	38	33	0	0	0
40°	51	52	49	46	40	34	0	0	0
42.5°	53	54	52	48	41	35	0	0	0
45°	54	56	53	49	42	36	0	0	0
47.5°	55	58	55	51	44	38	0	0	0
50°	57	60	56	52	45	39	0	0	0
52.5°	58	62	57	53	46	40	0	0	0
55°	59	63	60	54	48	40	0	0	0
57.5°	60	65	61	55	48	41	0	0	0
60°	60	66	62	56	49	42	0	0	0
62.5°	61	67	63	57	50	42	0	0	0
65°	61	68	63	58	50	43	0	0	0
67.5°	62	69	65	59	51	43	0	0	0
70°	62	70	65	60	51	43	0	0	0
72.5°	63	70	66	60	52	44	0	0	0
75°	63	71	66	60	52	45	0	0	0
77.5°	63	71	67	61	52	45	0	0	0
80°	64	72	67	61	53	45	0	0	0
82.5°	64	71	66	61	53	46	0	0	0
85°	65	72	67	61	53	46	0	0	0
87.5°	64	72	67	61	53	46	0	0	0
90°	64	72	66	61	53	45	0	0	0
92.5°	64	71	66	60	52	45	0	0	0
95°	64	71	65	60	53	45	0	0	0
97.5°	64	70	65	59	52	45	0	0	0
100°	63	69	64	59	51	43	0	0	0
102.5°	62	69	63	57	50	43	0	0	0
105°	62	68	62	56	50	42	0	0	0
107.5°	61	66	62	55	49	42	0	0	0
110°	60	65	60	54	48	41	0	0	0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	59	64	59	53	47	40	0	0	0
115°	58	63	57	52	46	39	0	0	0
117.5°	58	62	56	51	45	38	0	0	0
120°	57	60	55	50	43	37	0	0	0
122.5°	55	58	53	48	42	37	0	0	0
125°	54	56	51	46	41	36	0	0	0
127.5°	53	54	50	44	40	34	0	0	0
130°	51	52	48	42	38	33	0	0	0
132.5°	50	50	45	40	36	32	0	0	0
135°	49	48	43	39	35	31	0	0	0
137.5°	47	45	40	37	33	28	0	0	0
140°	45	43	39	34	31	27	0	0	0
142.5°	42	40	37	32	30	26	0	0	0
145°	40	37	35	30	27	24	0	0	0
147.5°	37	35	32	28	25	22	0	0	0
150°	35	33	29	25	24	20	0	0	0
152.5°	32	30	26	23	21	19	0	0	0
155°	29	26	24	21	19	17	0	0	0
157.5°	27	23	21	18	17	15	0	0	0
160°	24	20	18	16	14	12	0	0	0
162.5°	20	17	15	13	12	10	0	0	0
165°	17	12	12	10	9	7	0	0	0
167.5°	12	10	9	7	7	5	0	0	0
170°	8	5	6	5	5	3	0	0	0
172.5°	4	2	3	2	1	0	0	0	0
175°	2	2	1	1	0	0	0	0	0
177.5°	0	1	0	0	0	0	0	0	0
180°	0	0	0	0	0	0	0	0	0

(END OF REPORT)