

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: 01276

Luminaire Tested: **INDWPP60**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: 01276  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: INDWPP60  
Description: FAIL-SAFE CAST ALUMINUM HOUSING  
FORMED WHITE ENAMEL REFLECTOR  
Light Source: WHITE TRANSLUCENT PLASTIC ENCLOSURE  
60 WATT T-10 INCANDESCENT RATED 745 LUMENS  
Ballast/Driver: -

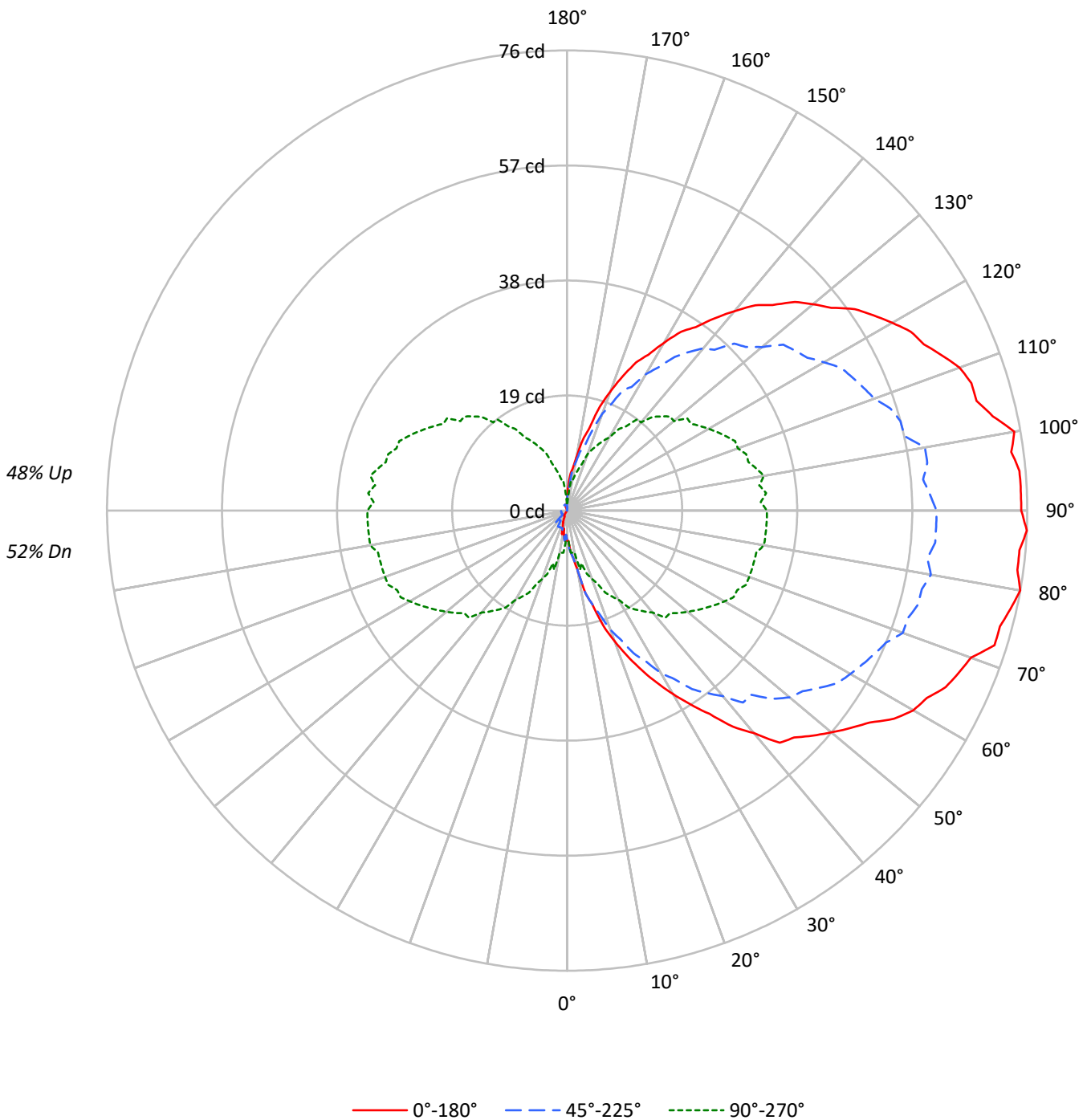
**Summary**

Lumens per Lamp: 745 (1 lamp)  
Luminaire Lumens: 326.0 lumens  
Efficiency: 43.8%  
Efficacy: 5.6 lumens/watt  
Spacing Criteria (0/90/45): 4.36 / 4.17 / 3.9  
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 (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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	47	47	47	47	44	44	44	44	37	37	37	31	31	31	25	25	25	23																												
1	40	37	35	32	37	34	32	30	29	27	25	23	22	21	18	17	16	14																												
2	36	31	28	24	33	29	25	23	24	21	19	19	17	15	15	13	12	10																												
3	32	27	23	19	29	24	21	18	20	17	15	16	14	12	12	11	9	7																												
4	29	23	19	16	26	21	17	14	17	14	12	14	11	9	11	9	7	5																												
5	26	20	16	13	24	19	15	12	15	12	10	12	10	8	9	7	6	4																												
6	24	18	14	11	22	16	13	10	13	10	8	11	8	6	8	6	5	3																												
7	22	16	12	9	20	15	11	8	12	9	7	10	7	5	7	5	4	3																												
8	20	14	11	8	19	13	10	7	11	8	6	9	6	5	7	5	3	2																												
9	19	13	9	7	17	12	9	6	10	7	5	8	6	4	6	4	3	2																												
10	18	12	8	6	16	11	8	6	9	6	5	7	5	4	6	4	3	2																												

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	641	641	641
5°	647	747	462
10°	727	644	218
15°	965	733	181
20°	1193	882	104
25°	1328	1012	46
30°	1445	1067	41
35°	1551	1183	0
40°	1688	1238	0
45°	1754	1298	0
50°	1794	1364	0
55°	1843	1436	0
60°	1932	1516	0
65°	1974	1556	0
70°	2000	1608	0
75°	2069	1622	0
80°	2126	1700	0
85°	2114	1741	0



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**ZONAL LUMENS:**

**CANDELA DISTRIBUTION:**

Zone	Lumens	% Fixture	% Lamp		0°	45°	90°	135°	180°	Flux
0°-10°	0.6	0.2	0.1	0°	5	5	5	5	5	
10°-20°	2.9	0.9	0.4	5°	7	7	7	5	5	1
20°-30°	6.9	2.1	0.9	15°	16	16	9	3	3	5
30°-40°	12.5	3.8	1.7	25°	29	26	15	3	1	14
40°-50°	19.0	5.8	2.6	35°	41	36	20	2	0	26
50°-60°	25.2	7.7	3.4	45°	53	43	24	2	0	41
60°-70°	30.9	9.5	4.1	55°	61	51	28	1	0	55
70°-80°	34.8	10.7	4.7	65°	69	56	31	1	0	68
80°-90°	36.6	11.2	4.9	75°	74	60	32	1	0	78
90°-100°	36.2	11.1	4.9	85°	75	61	33	1	0	62
100°-110°	33.4	10.3	4.5	90°	75	61	33	1	0	41
110°-120°	28.7	8.8	3.9	95°	75	59	33	1	0	61
120°-130°	22.9	7.0	3.1	105°	70	57	31	1	0	75
130°-140°	16.6	5.1	2.2	115°	65	52	29	1	0	65
140°-150°	10.6	3.3	1.4	125°	58	46	25	1	0	52
150°-160°	5.6	1.7	0.8	135°	48	39	22	1	0	37
160°-170°	2.1	0.6	0.3	145°	37	31	17	1	0	24
170°-180°	0.3	0.1	0.0	155°	27	22	12	1	0	12
0°-30°	10.4	3.2	1.4	165°	14	11	7	1	1	4
0°-40°	22.9	7.0	3.1	175°	6	4	3	0	1	1
0°-60°	67.1	20.6	9.0	180°	2	2	2	0	2	
0°-90°	169.4	52.0	22.7							
90°-120°	98.3	30.2	13.2							
90°-150°	148.5	45.6	19.9							
90°-180°	157.0	48.2	21.1							
0°-180°	326.0	100.0	43.8							



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	5	5	5	5	5	5	5	5	5
2.5°	5	6	6	5	5	5	4	5	4
5°	7	8	7	7	7	6	5	5	5
7.5°	8	9	8	8	7	5	4	4	4
10°	10	11	10	9	7	6	4	3	3
12.5°	14	15	14	12	10	7	4	4	4
15°	16	17	16	13	9	6	3	3	3
17.5°	20	20	18	15	11	7	3	2	2
20°	23	22	21	18	12	7	3	2	2
22.5°	26	26	23	19	13	8	3	2	1
25°	29	28	26	21	15	8	3	2	1
27.5°	32	32	28	23	16	9	3	1	1
30°	35	35	31	25	17	9	3	1	1
32.5°	38	38	33	27	19	10	2	1	1
35°	41	40	36	28	20	11	2	1	0
37.5°	45	42	38	32	21	11	2	0	0
40°	48	45	40	33	22	12	2	0	0
42.5°	52	49	43	35	24	13	3	0	0
45°	53	50	43	36	24	13	2	0	0
47.5°	55	52	46	38	25	13	1	0	0
50°	57	54	48	39	26	13	1	0	0
52.5°	59	56	49	40	27	14	1	0	0
55°	61	59	51	41	28	14	1	0	0
57.5°	64	61	53	43	29	15	1	0	0
60°	66	62	54	44	30	15	1	0	0
62.5°	67	64	55	45	31	15	1	0	0
65°	69	65	56	46	31	15	1	0	0
67.5°	70	66	57	47	32	16	1	0	0
70°	71	67	59	48	32	16	1	0	0
72.5°	74	68	59	48	32	16	1	0	0
75°	74	68	60	48	32	17	1	0	0
77.5°	75	68	60	49	32	17	1	0	0
80°	76	70	61	49	33	17	1	0	0
82.5°	75	70	60	49	33	17	1	0	0
85°	75	70	61	50	33	17	1	0	0
87.5°	76	70	61	49	33	17	1	0	0
90°	75	69	61	49	33	16	1	0	0
92.5°	75	69	60	49	32	17	1	0	0
95°	75	69	59	49	33	17	1	0	0
97.5°	74	68	60	48	32	17	1	0	0
100°	75	68	60	49	33	18	1	0	0
102.5°	72	67	57	47	32	16	1	0	0
105°	70	66	57	46	31	16	1	0	0
107.5°	70	64	56	45	31	16	1	0	0
110°	69	63	54	45	30	16	1	0	0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	67	62	53	43	30	16	1	0	0
115°	65	60	52	42	29	14	1	0	0
117.5°	64	59	51	42	28	13	1	0	0
120°	62	57	49	40	27	13	1	0	0
122.5°	60	55	47	39	26	13	1	0	0
125°	58	53	46	38	25	12	1	0	0
127.5°	55	50	45	36	25	12	1	0	0
130°	53	48	42	35	23	12	1	0	0
132.5°	51	46	40	33	23	11	1	0	0
135°	48	44	39	32	22	11	1	0	0
137.5°	46	42	36	30	21	10	1	0	0
140°	43	39	35	28	19	10	1	0	0
142.5°	40	36	33	26	19	9	1	0	0
145°	37	34	31	25	17	9	1	0	0
147.5°	35	32	28	23	16	8	1	0	0
150°	32	30	26	21	14	7	1	0	0
152.5°	29	27	23	19	13	7	1	1	0
155°	27	24	22	18	12	6	1	1	0
157.5°	24	21	19	16	11	6	1	1	0
160°	21	19	17	13	10	5	1	1	1
162.5°	18	16	14	12	8	4	1	1	1
165°	14	13	11	10	7	4	1	1	1
167.5°	12	11	10	8	6	3	1	1	1
170°	9	8	8	6	5	3	1	1	1
172.5°	7	7	7	6	5	3	1	1	1
175°	6	5	4	4	3	1	0	0	1
177.5°	4	4	3	2	1	0	0	1	1
180°	2	2	2	2	2	2	0	2	2

(END OF REPORT)