

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: P184343

Luminaire Tested: **ENW/ENC-12-2-LD1-17-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184343
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-12-2-LD1-17-40-CP250-UNV-EDC1
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

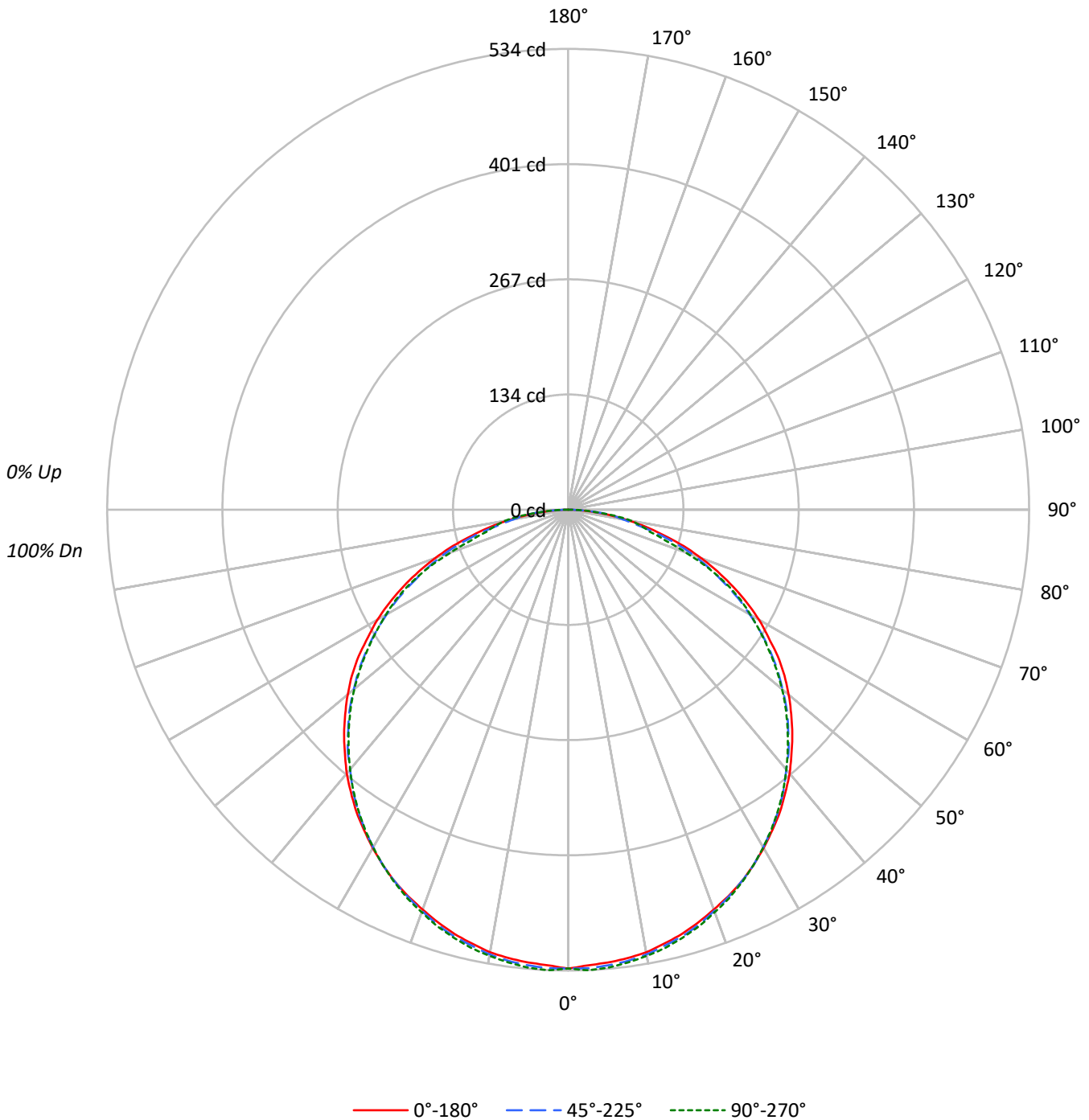
Lumens per Lamp: N/A
Luminaire Lumens: 1565.6 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 18.8
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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2862	2862	2862
5°	2833	2837	2852
10°	2821	2807	2819
15°	2799	2772	2785
20°	2774	2729	2743
25°	2759	2690	2702
30°	2735	2646	2655
35°	2714	2599	2605
40°	2690	2536	2548
45°	2661	2480	2487
50°	2635	2410	2419
55°	2597	2327	2331
60°	2530	2208	2242
65°	2425	2056	2114
70°	2266	1894	1794
75°	2017	1590	1475
80°	1683	1235	1479
85°	1155	938	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	3.2
10°-20°	144.3	9.2
20°-30°	219.1	14.0
30°-40°	265.9	17.0
40°-50°	279.1	17.8
50°-60°	257.1	16.4
60°-70°	199.7	12.8
70°-80°	114.1	7.3
80°-90°	35.9	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	413.7	26.4
0°-40°	679.7	43.4
0°-60°	1215.9	77.7
0°-90°	1565.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1565.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	532	532	532	532	532	
5°	527	528	530	532	533	50
15°	509	510	512	512	513	144
25°	475	475	475	475	476	219
35°	428	427	425	424	424	267
45°	367	365	360	358	360	283
55°	296	293	286	283	284	264
65°	211	207	198	200	202	208
75°	115	113	107	97	97	122
85°	29	30	34	33	33	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	531.7	531.7	531.7	531.7	531.7
2.5°	528.4	530.0	531.7	533.4	534.2
5°	526.7	528.4	530.0	531.7	532.6
7.5°	524.2	525.0	527.5	529.2	529.2
10°	520.8	520.8	523.3	525.0	525.0
12.5°	514.9	515.8	517.4	519.1	520.0
15°	509.0	509.9	511.6	512.4	513.2
17.5°	501.5	502.3	504.0	504.8	505.7
20°	493.1	493.9	494.8	495.6	496.4
22.5°	484.7	484.7	485.5	486.4	487.2
25°	475.4	474.6	475.4	475.4	476.3
27.5°	464.5	464.5	464.5	463.7	464.5
30°	452.8	452.8	451.9	451.1	451.9
32.5°	440.2	440.2	438.5	437.6	438.5
35°	427.6	426.7	425.0	424.2	424.2
37.5°	413.3	411.6	409.9	408.2	409.1
40°	399.0	397.3	393.1	391.4	393.1
42.5°	383.0	381.4	378.0	375.5	376.3
45°	367.1	365.4	360.4	357.8	359.5
47.5°	350.3	348.6	343.6	341.0	341.9
50°	333.5	330.1	324.2	321.7	323.4
52.5°	315.8	312.5	305.8	302.4	304.1
55°	296.5	293.2	285.6	283.1	283.9
57.5°	274.7	273.0	264.6	262.1	263.8
60°	255.4	251.2	242.8	241.9	244.4
62.5°	233.5	228.5	221.8	220.9	224.3
65°	210.8	206.6	198.2	199.9	201.6
67.5°	187.3	183.1	176.4	176.4	174.7
70°	163.8	158.8	155.4	147.8	145.3
72.5°	140.3	136.1	131.9	119.3	117.6
75°	115.1	112.6	106.7	96.6	97.4
77.5°	92.4	91.6	82.3	82.3	86.5
80°	69.7	69.7	63.8	71.4	74.8
82.5°	48.7	47.0	52.1	54.6	55.4
85°	29.4	30.2	33.6	32.8	32.8
87.5°	12.6	13.4	14.3	14.3	14.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)