

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: P184368

Luminaire Tested: **ENW/ENC-24-2-LD1-25-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184368
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-24-2-LD1-25-40-CA125-UNV-EDC1
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

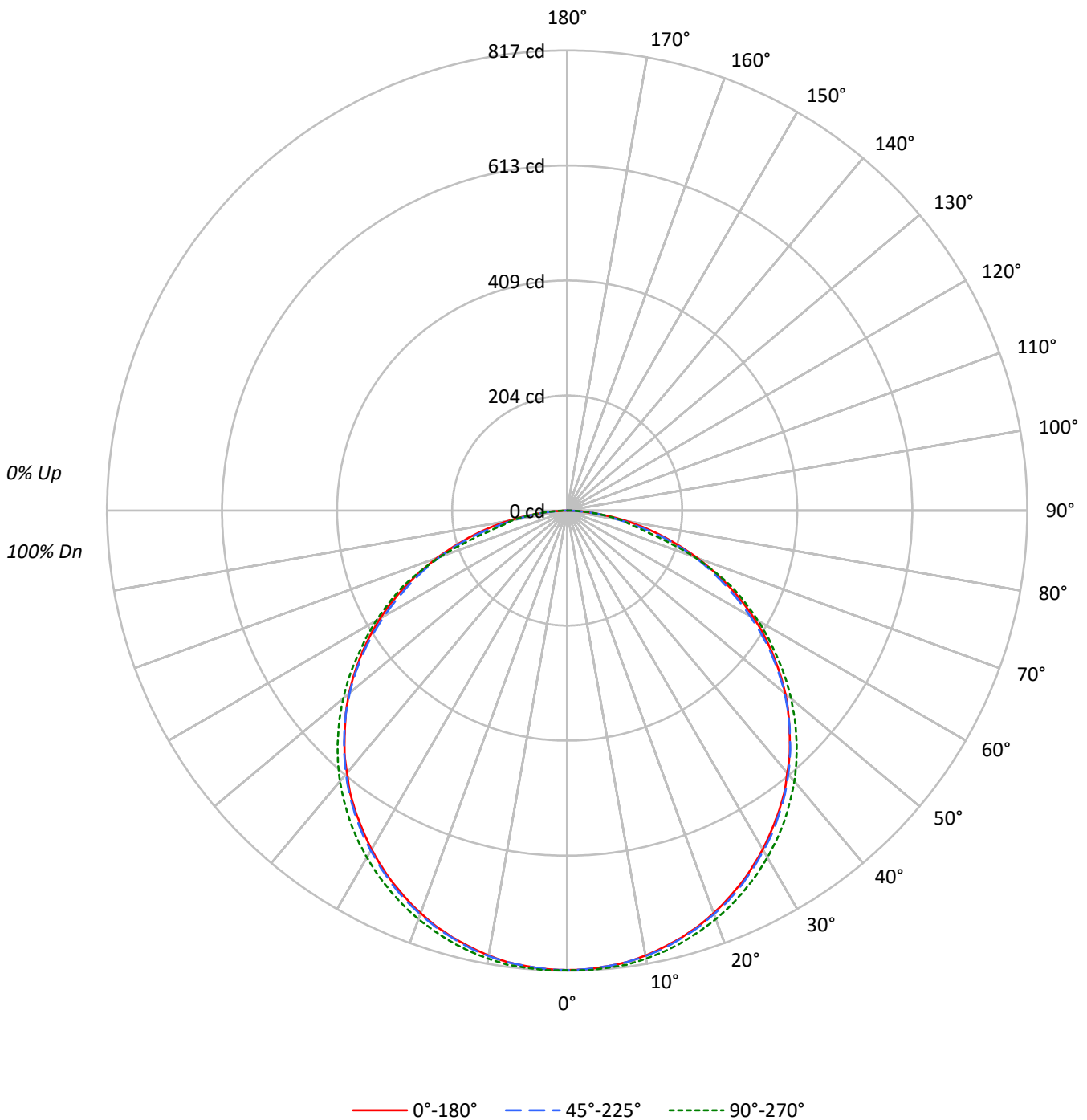
Lumens per Lamp: N/A
Luminaire Lumens: 2417.2 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 25.4
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				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	99	95	106	101	97	94	97	94	91	93	91	88	90	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2196	2196	2196
5°	2185	2181	2192
10°	2173	2167	2188
15°	2157	2148	2180
20°	2140	2129	2171
25°	2120	2108	2160
30°	2098	2082	2148
35°	2076	2056	2134
40°	2050	2026	2115
45°	2024	1988	2087
50°	1999	1946	2050
55°	1954	1886	1998
60°	1900	1799	1941
65°	1814	1699	1867
70°	1700	1588	1661
75°	1532	1378	1266
80°	1288	1018	1177
85°	796	707	831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.4	3.2
10°-20°	222.3	9.2
20°-30°	338.9	14.0
30°-40°	413.1	17.1
40°-50°	434.6	18.0
50°-60°	398.9	16.5
60°-70°	309.3	12.8
70°-80°	174.4	7.2
80°-90°	48.3	2.0
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°	638.6	26.4
0°-40°	1051.7	43.5
0°-60°	1885.1	78.0
0°-90°	2417.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2417.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	812	812	812	815	815	77
15°	785	785	786	790	793	221
25°	730	730	733	740	744	337
35°	654	655	657	666	672	409
45°	558	559	559	568	576	431
55°	446	444	442	448	456	399
65°	316	311	307	315	325	312
75°	175	173	168	150	144	185
85°	40	40	41	41	42	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.0	816.0	816.0	816.0	816.0
2.5°	815.1	815.1	815.1	816.9	816.9
5°	812.3	812.3	812.3	815.1	815.1
7.5°	808.7	808.7	808.7	811.4	813.3
10°	802.2	802.2	803.1	805.9	807.7
12.5°	793.9	793.9	795.8	799.5	801.3
15°	784.7	784.7	785.7	790.3	793.0
17.5°	773.7	772.8	775.5	780.1	782.9
20°	760.8	759.9	762.7	767.3	771.9
22.5°	746.1	746.1	748.9	754.4	759.0
25°	730.5	730.5	733.2	739.7	744.3
27.5°	713.0	713.0	715.7	724.0	728.6
30°	694.6	695.5	697.3	706.5	711.1
32.5°	674.3	676.2	678.0	687.2	692.7
35°	654.1	655.0	656.9	666.1	672.5
37.5°	632.9	632.0	634.8	644.0	650.4
40°	608.1	609.0	610.9	619.1	627.4
42.5°	585.1	584.2	586.0	594.3	602.6
45°	558.4	559.3	559.3	567.6	575.9
47.5°	532.7	532.7	532.7	540.0	548.3
50°	506.0	504.1	504.1	510.6	518.9
52.5°	476.5	474.7	473.8	481.1	488.5
55°	446.2	444.3	442.5	448.0	456.3
57.5°	415.8	413.1	409.4	414.9	424.1
60°	383.7	379.9	375.3	381.8	391.9
62.5°	350.5	345.9	341.3	348.7	357.9
65°	315.5	310.9	307.3	314.7	324.7
67.5°	280.6	276.0	274.1	279.7	283.3
70°	245.7	241.9	241.1	240.1	240.1
72.5°	209.7	207.0	205.1	195.9	190.5
75°	174.8	172.9	167.5	149.9	144.5
77.5°	140.7	138.9	127.9	114.1	115.0
80°	106.7	104.9	92.0	94.7	97.5
82.5°	72.7	70.9	68.1	69.0	69.0
85°	40.5	39.5	41.4	41.4	42.3
87.5°	16.5	16.5	17.5	18.4	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)