

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: P184369

Luminaire Tested: **ENW/ENC-24-2-LD1-25-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184369
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-CP125-UNV-EDC1
Description: FAIL-SAFE 2X2 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

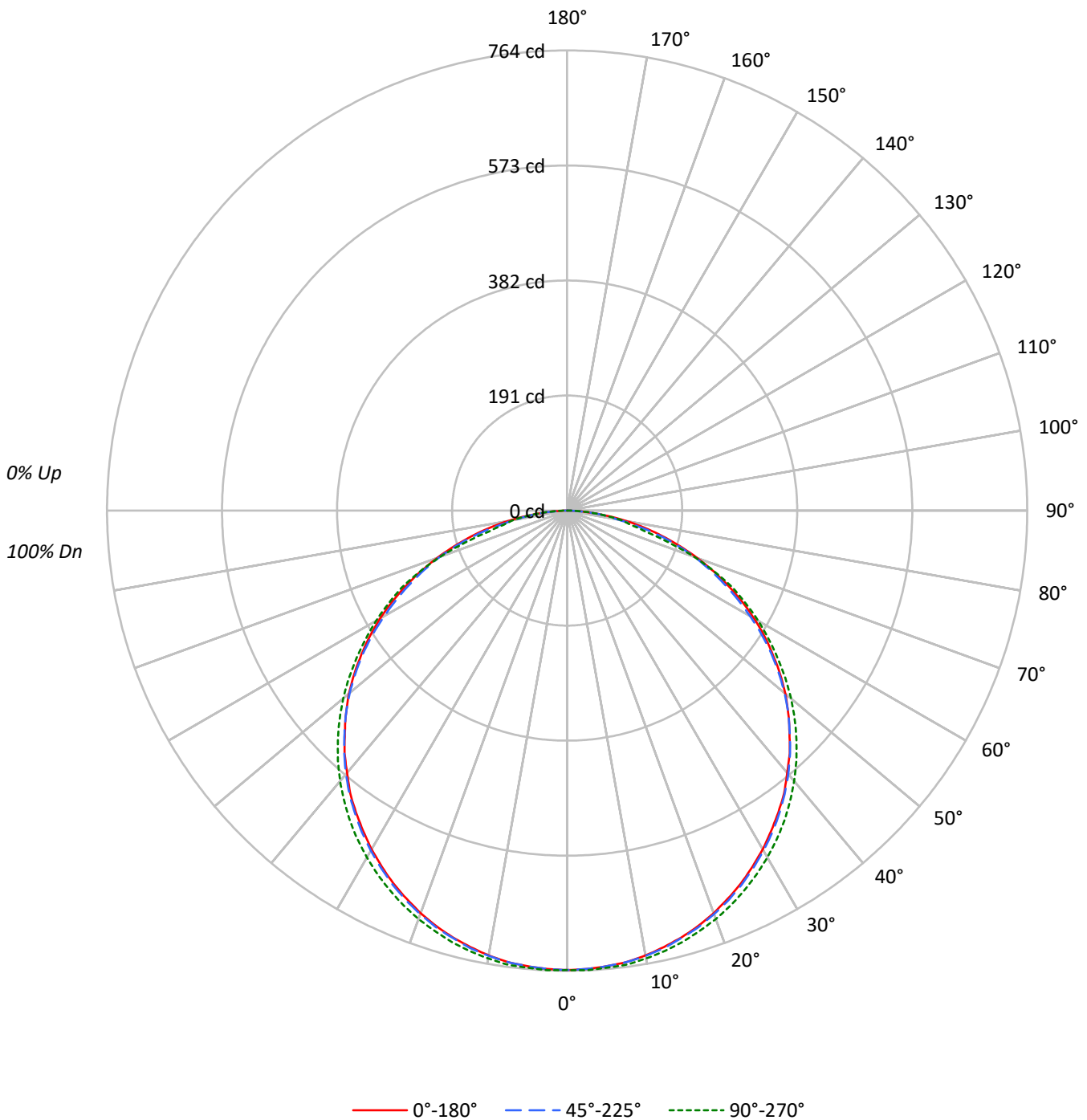
Lumens per Lamp: N/A
Luminaire Lumens: 2259.6 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 25.4
Input Voltage (V): NR
Input Current (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	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°	2053	2053	2053
5°	2042	2039	2049
10°	2031	2026	2045
15°	2017	2008	2038
20°	2000	1991	2029
25°	1981	1970	2019
30°	1961	1946	2008
35°	1941	1922	1995
40°	1916	1894	1977
45°	1892	1859	1951
50°	1869	1820	1917
55°	1826	1762	1868
60°	1776	1682	1814
65°	1696	1588	1746
70°	1588	1484	1552
75°	1432	1287	1183
80°	1204	951	1100
85°	745	661	776



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.3	3.2
10°-20°	207.8	9.2
20°-30°	316.8	14.0
30°-40°	386.2	17.1
40°-50°	406.3	18.0
50°-60°	372.9	16.5
60°-70°	289.2	12.8
70°-80°	163.1	7.2
80°-90°	45.1	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°	596.9	26.4
0°-40°	983.1	43.5
0°-60°	1762.3	78.0
0°-90°	2259.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2259.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	763	763	763	763	763	
5°	759	759	759	762	762	72
15°	734	734	734	739	741	207
25°	683	683	685	692	696	315
35°	611	612	614	623	629	383
45°	522	523	523	531	538	403
55°	417	415	414	419	426	373
65°	295	291	287	294	304	292
75°	163	162	156	140	135	173
85°	38	37	39	39	40	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	762.8	762.8	762.8	762.8	762.8
2.5°	761.9	761.9	761.9	763.7	763.7
5°	759.4	759.4	759.4	761.9	761.9
7.5°	756.0	756.0	756.0	758.5	760.3
10°	749.9	749.9	750.8	753.3	755.1
12.5°	742.2	742.2	743.9	747.4	749.0
15°	733.6	733.6	734.5	738.8	741.3
17.5°	723.2	722.4	725.0	729.3	731.8
20°	711.2	710.3	713.0	717.3	721.6
22.5°	697.4	697.4	700.1	705.2	709.5
25°	682.9	682.9	685.4	691.5	695.8
27.5°	666.5	666.5	669.1	676.8	681.1
30°	649.3	650.1	651.9	660.5	664.8
32.5°	630.4	632.1	633.8	642.4	647.6
35°	611.4	612.3	614.1	622.7	628.6
37.5°	591.7	590.8	593.4	602.0	608.0
40°	568.4	569.3	571.1	578.8	586.5
42.5°	546.9	546.1	547.8	555.5	563.3
45°	522.0	522.9	522.9	530.6	538.3
47.5°	498.0	498.0	498.0	504.8	512.5
50°	473.0	471.3	471.3	477.3	485.1
52.5°	445.5	443.7	442.9	449.8	456.6
55°	417.1	415.4	413.6	418.8	426.5
57.5°	388.7	386.2	382.7	387.8	396.4
60°	358.6	355.2	350.9	356.9	366.3
62.5°	327.6	323.3	319.0	326.0	334.6
65°	295.0	290.7	287.3	294.1	303.6
67.5°	262.3	258.0	256.3	261.5	264.9
70°	229.6	226.2	225.3	224.4	224.4
72.5°	196.1	193.5	191.8	183.2	178.0
75°	163.4	161.7	156.5	140.2	135.0
77.5°	131.6	129.8	119.6	106.7	107.5
80°	99.7	98.1	86.0	88.6	91.1
82.5°	68.0	66.2	63.7	64.5	64.5
85°	37.9	37.0	38.7	38.7	39.5
87.5°	15.5	15.5	16.4	17.2	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)