

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: P184385

Luminaire Tested: **ENW/ENC-24-4-LD1-45-40-CP125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184385
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-24-4-LD1-45-40-CP125-UNV-EDC1
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.125" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

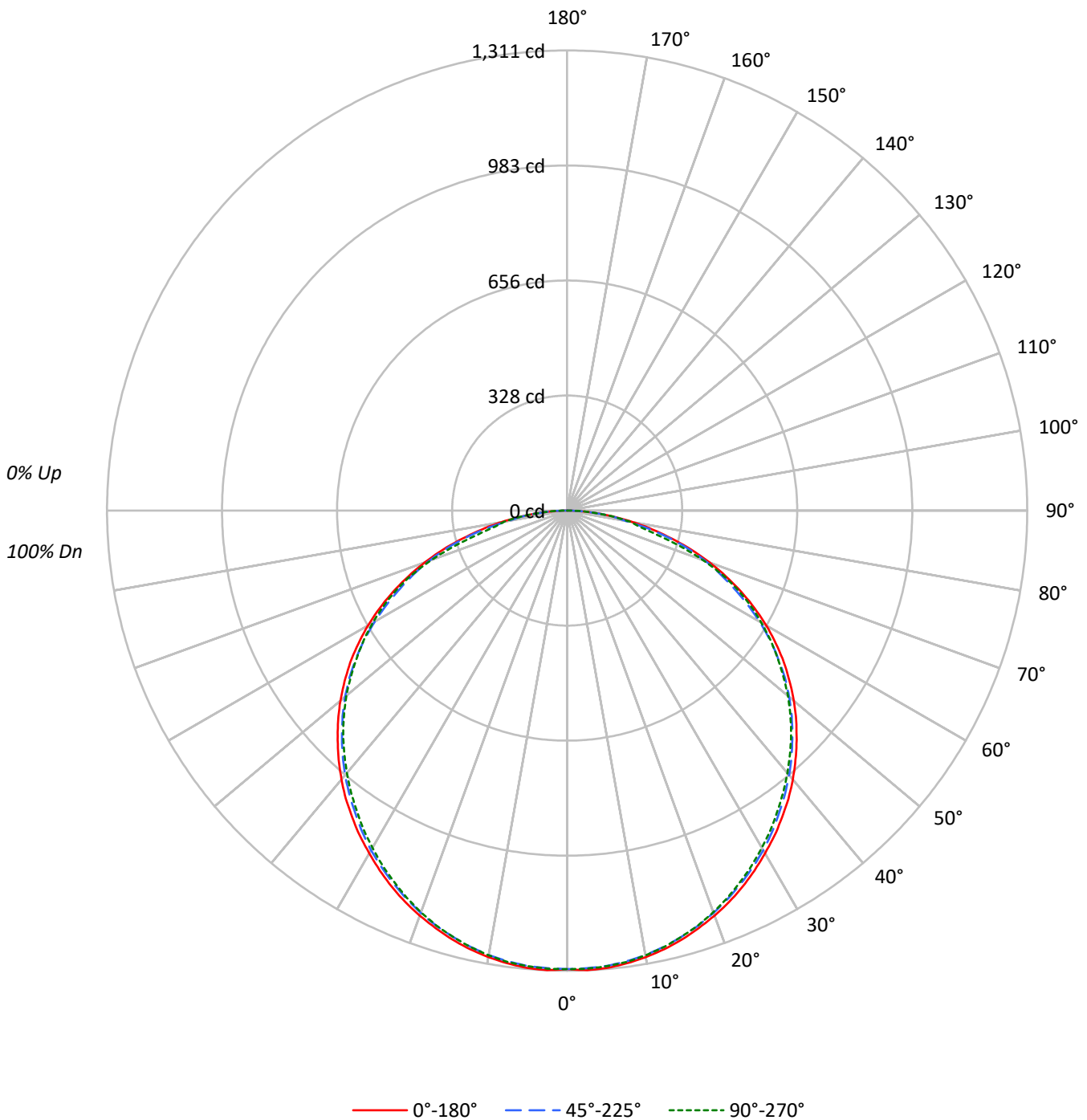
Lumens per Lamp: N/A
Luminaire Lumens: 3971.7 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 46.8
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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	88	81	75	84	78	74	81	76	72	78	74	70	68
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	61	55	51	48
5	75	62	52	45	73	60	52	45	58	51	45	56	49	44	54	48	44	42
6	69	55	46	40	67	54	46	39	52	45	39	51	44	39	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	39	34	32
8	59	46	37	31	58	45	37	31	44	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25
10	52	39	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1758	1758	1758
5°	1763	1751	1752
10°	1757	1740	1742
15°	1750	1727	1728
20°	1743	1713	1712
25°	1735	1698	1693
30°	1727	1684	1675
35°	1723	1667	1658
40°	1721	1655	1645
45°	1716	1639	1635
50°	1715	1625	1622
55°	1708	1600	1600
60°	1690	1560	1582
65°	1653	1500	1548
70°	1586	1438	1422
75°	1468	1310	1149
80°	1289	1004	1095
85°	1001	785	810



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.8	3.1
10°-20°	355.2	8.9
20°-30°	540.6	13.6
30°-40°	659.8	16.6
40°-50°	702.6	17.7
50°-60°	659.4	16.6
60°-70°	527.3	13.3
70°-80°	310.4	7.8
80°-90°	92.5	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°	1019.7	25.7
0°-40°	1679.5	42.3
0°-60°	3041.5	76.6
0°-90°	3971.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3971.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1308	1304	1302	1300	1303	124
15°	1265	1260	1257	1255	1257	357
25°	1182	1177	1172	1165	1167	545
35°	1067	1062	1053	1043	1045	668
45°	924	920	907	900	902	714
55°	754	746	734	728	731	673
65°	547	538	525	532	538	540
75°	309	303	302	272	262	327
85°	83	77	82	82	82	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1306.4	1306.4	1306.4	1306.4	1306.4
2.5°	1310.7	1305.5	1304.6	1303.7	1306.4
5°	1308.0	1303.7	1302.1	1300.3	1302.9
7.5°	1301.2	1296.9	1295.1	1294.3	1296.9
10°	1291.7	1286.5	1285.7	1284.0	1286.5
12.5°	1279.7	1275.4	1272.8	1271.1	1273.6
15°	1265.0	1259.9	1257.3	1254.8	1257.3
17.5°	1247.0	1242.7	1240.1	1237.6	1239.2
20°	1228.1	1222.9	1219.5	1214.3	1217.7
22.5°	1206.6	1201.4	1197.1	1191.1	1193.7
25°	1182.5	1177.4	1172.2	1165.3	1167.0
27.5°	1155.9	1151.6	1145.5	1137.8	1139.5
30°	1127.4	1124.0	1117.2	1108.6	1109.4
32.5°	1099.1	1094.8	1086.2	1076.7	1078.5
35°	1067.2	1062.1	1052.7	1043.2	1044.9
37.5°	1035.5	1028.5	1019.1	1008.8	1011.3
40°	1000.2	995.9	983.9	975.3	976.1
42.5°	963.2	958.9	946.8	939.1	940.0
45°	924.5	920.2	907.3	900.4	902.2
47.5°	885.0	880.7	867.8	860.8	862.6
50°	843.6	838.5	825.6	818.7	821.3
52.5°	799.0	793.8	781.8	775.7	776.6
55°	754.2	746.5	733.6	728.4	731.0
57.5°	705.2	698.3	685.4	681.1	687.2
60°	655.3	646.7	632.9	632.9	639.0
62.5°	602.0	593.4	578.8	584.0	590.8
65°	546.9	538.3	524.6	532.4	538.3
67.5°	489.4	480.8	472.2	476.5	479.9
70°	430.8	421.4	418.8	414.5	411.1
72.5°	371.5	362.0	362.0	346.6	336.2
75°	308.8	302.7	301.8	271.7	262.3
77.5°	249.4	248.6	234.8	209.9	209.9
80°	190.0	194.3	168.5	176.3	181.4
82.5°	135.0	135.9	129.8	129.8	131.6
85°	83.4	77.4	81.7	81.7	82.5
87.5°	31.8	35.2	36.1	37.9	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)