

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: P184386

Luminaire Tested: **ENW/ENC-24-4-LD1-45-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184386
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-CP187-UNV-EDC1
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

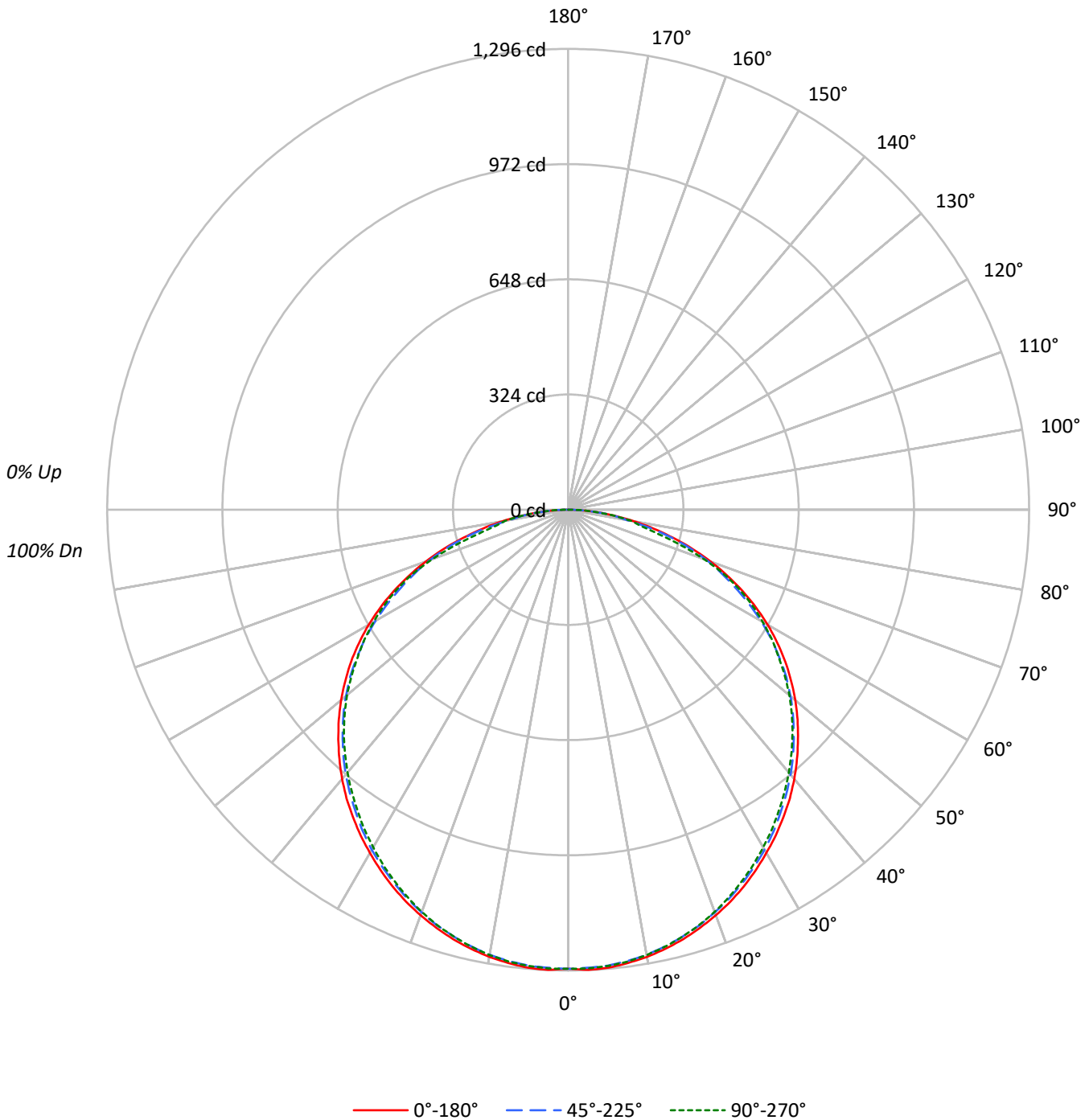
Lumens per Lamp: N/A
Luminaire Lumens: 3925.7 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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°	1737	1737	1737
5°	1742	1730	1732
10°	1737	1720	1722
15°	1730	1707	1708
20°	1722	1693	1693
25°	1715	1679	1673
30°	1707	1665	1656
35°	1703	1648	1639
40°	1701	1635	1626
45°	1696	1620	1616
50°	1695	1607	1604
55°	1689	1581	1582
60°	1671	1542	1564
65°	1634	1482	1530
70°	1567	1422	1405
75°	1451	1295	1136
80°	1274	992	1082
85°	991	777	802



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	3.1
10°-20°	351.1	8.9
20°-30°	534.4	13.6
30°-40°	652.2	16.6
40°-50°	694.5	17.7
50°-60°	651.8	16.6
60°-70°	521.2	13.3
70°-80°	306.8	7.8
80°-90°	91.4	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°	1007.9	25.7
0°-40°	1660.0	42.3
0°-60°	3006.3	76.6
0°-90°	3925.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1293	1289	1287	1285	1288	123
15°	1250	1245	1243	1240	1243	353
25°	1169	1164	1159	1152	1154	539
35°	1055	1050	1040	1031	1033	661
45°	914	910	897	890	892	705
55°	746	738	725	720	722	665
65°	541	532	518	526	532	534
75°	305	299	298	269	259	323
85°	82	76	81	81	82	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.2	1291.2	1291.2	1291.2	1291.2
2.5°	1295.5	1290.3	1289.5	1288.6	1291.2
5°	1292.9	1288.6	1287.0	1285.3	1287.8
7.5°	1286.1	1281.8	1280.1	1279.3	1281.8
10°	1276.8	1271.6	1270.8	1269.1	1271.6
12.5°	1264.8	1260.6	1258.1	1256.3	1258.9
15°	1250.4	1245.3	1242.8	1240.2	1242.8
17.5°	1232.6	1228.3	1225.8	1223.2	1224.9
20°	1213.8	1208.8	1205.3	1200.3	1203.6
22.5°	1192.6	1187.5	1183.3	1177.3	1179.8
25°	1168.8	1163.7	1158.6	1151.8	1153.5
27.5°	1142.5	1138.2	1132.3	1124.6	1126.3
30°	1114.4	1111.0	1104.2	1095.7	1096.6
32.5°	1086.3	1082.1	1073.6	1064.3	1066.0
35°	1054.9	1049.8	1040.5	1031.1	1032.8
37.5°	1023.5	1016.6	1007.3	997.1	999.6
40°	988.6	984.3	972.5	964.0	964.8
42.5°	952.0	947.8	935.9	928.3	929.1
45°	913.8	909.5	896.8	890.0	891.7
47.5°	874.7	870.5	857.7	850.9	852.6
50°	833.9	828.8	816.0	809.3	811.8
52.5°	789.7	784.6	772.7	766.8	767.6
55°	745.5	737.8	725.1	720.0	722.5
57.5°	697.0	690.3	677.5	673.3	679.2
60°	647.8	639.2	625.6	625.6	631.6
62.5°	595.0	586.5	572.1	577.2	584.0
65°	540.6	532.1	518.5	526.2	532.1
67.5°	483.7	475.2	466.7	471.0	474.3
70°	425.8	416.5	414.0	409.7	406.3
72.5°	367.2	357.8	357.8	342.5	332.3
75°	305.2	299.2	298.3	268.6	259.3
77.5°	246.5	245.7	232.0	207.4	207.4
80°	187.8	192.1	166.6	174.3	179.3
82.5°	133.5	134.3	128.3	128.3	130.0
85°	82.5	76.5	80.8	80.8	81.6
87.5°	31.5	34.8	35.7	37.4	39.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)