

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: P184399

Luminaire Tested: **ENW/ENC-24-4-LD1-70-40-CP250-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184399
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-LD1-70-40-CP250-UNV-EDC1
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.250" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

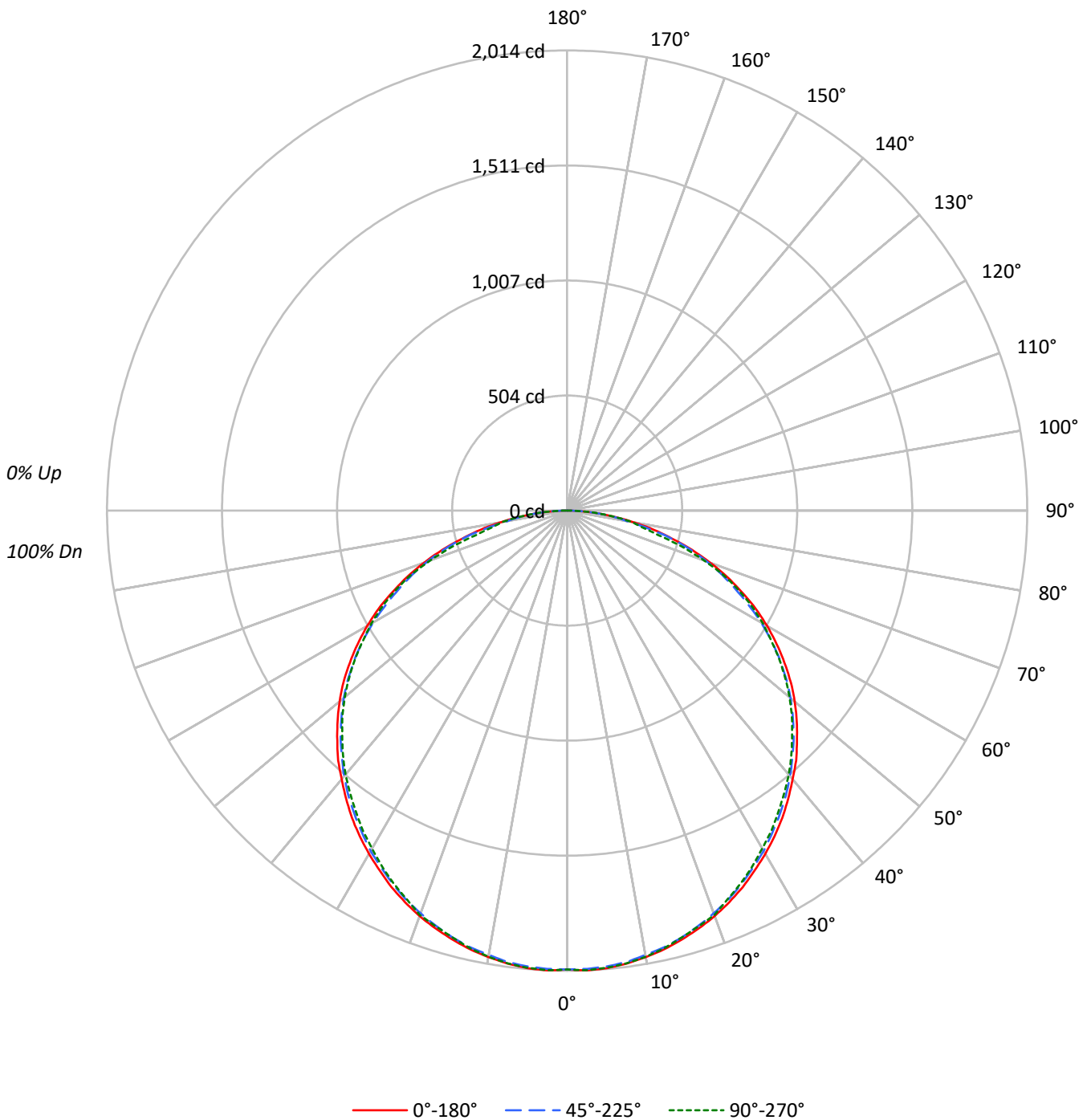
Lumens per Lamp: N/A
Luminaire Lumens: 6134.4 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 74.9
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	87	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	60	55	50	48
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2702	2702	2702
5°	2709	2692	2701
10°	2699	2673	2685
15°	2688	2657	2659
20°	2679	2635	2650
25°	2669	2614	2610
30°	2657	2593	2579
35°	2651	2570	2557
40°	2642	2552	2543
45°	2642	2533	2522
50°	2643	2514	2511
55°	2629	2477	2481
60°	2606	2418	2451
65°	2548	2324	2391
70°	2452	2233	2199
75°	2269	2049	1803
80°	2012	1581	1734
85°	1554	1235	1296



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.4	3.1
10°-20°	546.3	8.9
20°-30°	831.8	13.6
30°-40°	1016.2	16.6
40°-50°	1083.9	17.7
50°-60°	1019.1	16.6
60°-70°	816.1	13.3
70°-80°	484.0	7.9
80°-90°	146.5	2.4
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°	1568.6	25.6
0°-40°	2584.8	42.1
0°-60°	4687.8	76.4
0°-90°	6134.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6134.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2008	2008	2008	2008	2008	
5°	2010	2005	2003	1998	2008	191
15°	1943	1939	1934	1929	1934	549
25°	1819	1813	1804	1792	1799	838
35°	1642	1639	1623	1608	1611	1027
45°	1423	1418	1402	1389	1392	1099
55°	1161	1156	1136	1124	1133	1038
65°	843	833	813	821	832	834
75°	477	472	472	427	412	507
85°	129	124	128	131	132	146
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2008.4	2008.4	2008.4	2008.4	2008.4
2.5°	2014.3	2010.1	2007.6	2002.6	2013.5
5°	2010.1	2005.1	2002.6	1998.4	2008.4
7.5°	1999.2	1995.0	1992.5	1985.8	1998.4
10°	1984.1	1980.7	1974.8	1973.2	1982.4
12.5°	1966.4	1959.7	1958.0	1953.0	1962.2
15°	1942.9	1938.7	1934.5	1928.6	1934.5
17.5°	1917.7	1912.7	1906.8	1900.1	1908.5
20°	1888.3	1882.4	1875.7	1867.3	1884.1
22.5°	1854.7	1848.8	1843.0	1831.2	1838.8
25°	1818.6	1812.7	1804.3	1791.7	1799.3
27.5°	1776.6	1774.1	1762.3	1746.4	1755.6
30°	1734.6	1730.4	1720.3	1702.7	1707.7
32.5°	1689.2	1685.0	1671.6	1656.5	1662.4
35°	1642.2	1638.8	1622.9	1607.8	1611.1
37.5°	1589.3	1584.2	1572.5	1554.8	1559.9
40°	1535.5	1533.0	1517.9	1500.2	1508.6
42.5°	1483.4	1478.4	1459.9	1447.3	1452.4
45°	1423.0	1417.9	1402.0	1389.4	1391.9
47.5°	1363.3	1360.0	1339.8	1328.0	1333.9
50°	1300.3	1296.1	1276.8	1264.2	1270.9
52.5°	1234.0	1226.4	1207.9	1196.2	1202.9
55°	1160.9	1155.8	1135.7	1123.9	1133.2
57.5°	1087.8	1080.2	1060.1	1053.4	1059.2
60°	1010.5	1000.4	981.1	976.9	989.5
62.5°	931.6	919.0	895.4	903.8	913.9
65°	843.4	833.3	813.1	820.7	831.6
67.5°	757.7	745.1	734.2	736.7	743.4
70°	666.1	652.7	650.2	643.4	635.9
72.5°	573.7	560.3	562.0	542.6	528.4
75°	477.1	472.1	472.1	426.7	411.6
77.5°	388.9	386.4	367.1	328.4	333.5
80°	296.5	303.2	265.4	278.0	287.3
82.5°	208.3	215.0	204.1	207.5	208.3
85°	129.4	124.3	128.5	131.0	131.9
87.5°	50.4	57.1	58.0	62.2	65.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)