

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: P184398

Luminaire Tested: **ENW/ENC-24-4-LD1-70-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184398
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-CP187-UNV-EDC1
Description: FAIL-SAFE 2X4 ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

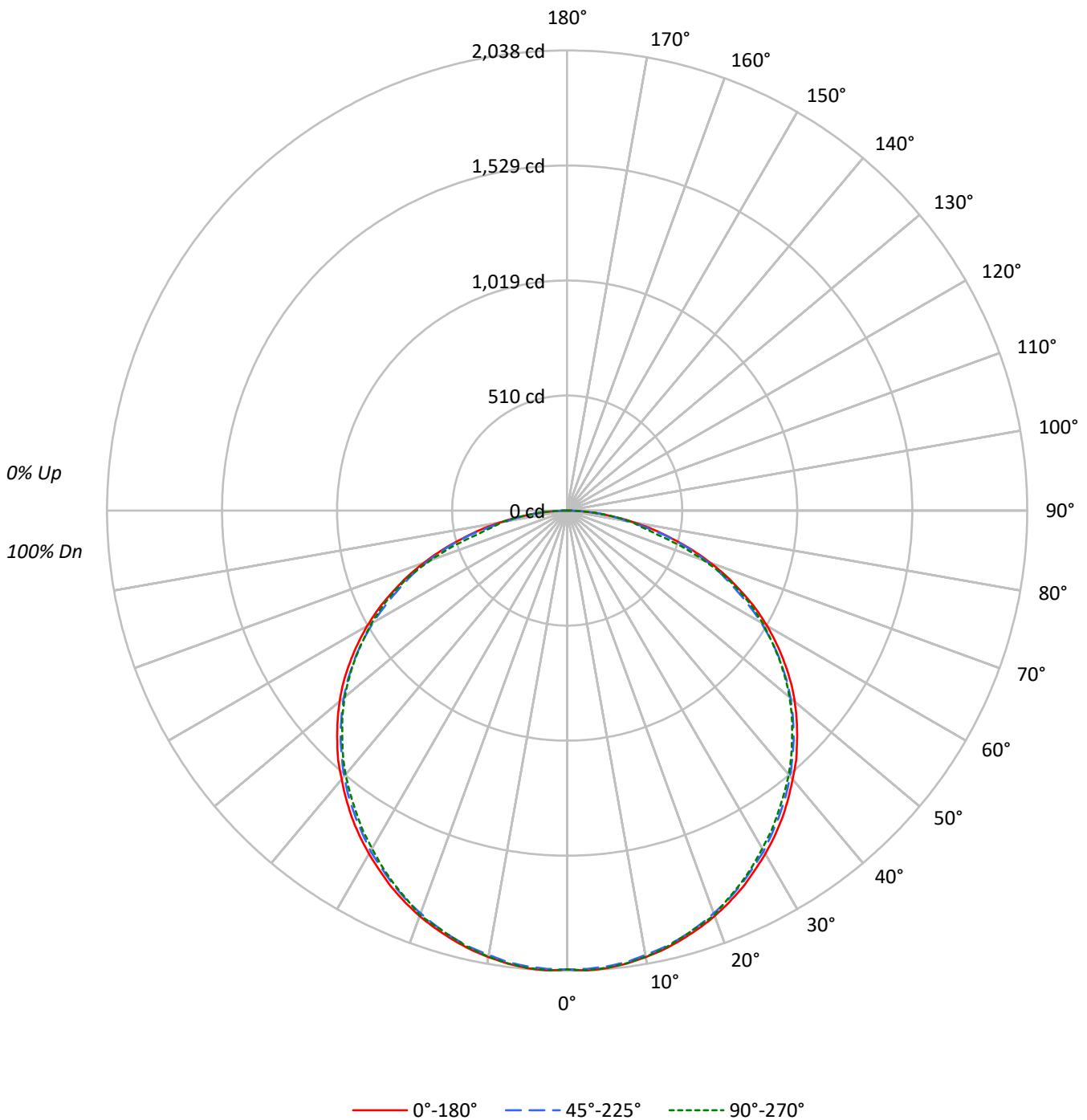
Lumens per Lamp: N/A
Luminaire Lumens: 6207.8 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 74.9
Input Voltage (V): NR
Input Current (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	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					100			
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83					83			
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	78	74	70	68					68			
3	89	78	70	63	87	77	69	62	74	67	61	71	65	60	68	63	59	57					57			
4	81	69	60	53	79	68	59	53	65	58	52	63	56	51	60	55	50	48					48			
5	75	61	52	45	73	60	52	45	58	50	45	56	49	44	54	48	44	41					41			
6	69	55	46	39	67	54	46	39	52	45	39	51	44	38	49	43	38	36					36			
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32					32			
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30	28					28			
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25					25			
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2735	2735	2735
5°	2741	2724	2733
10°	2731	2705	2717
15°	2720	2689	2691
20°	2711	2666	2681
25°	2701	2645	2642
30°	2688	2624	2610
35°	2683	2601	2587
40°	2673	2583	2573
45°	2673	2564	2552
50°	2675	2544	2541
55°	2661	2506	2511
60°	2638	2447	2480
65°	2579	2352	2420
70°	2481	2259	2226
75°	2296	2073	1825
80°	2036	1600	1755
85°	1572	1249	1311



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	3.1
10°-20°	552.9	8.9
20°-30°	841.8	13.6
30°-40°	1028.4	16.6
40°-50°	1096.8	17.7
50°-60°	1031.3	16.6
60°-70°	825.9	13.3
70°-80°	489.8	7.9
80°-90°	148.2	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°	1587.4	25.6
0°-40°	2615.7	42.1
0°-60°	4743.8	76.4
0°-90°	6207.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6207.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2032	2032	2032	2032	2032	
5°	2034	2029	2026	2022	2032	193
15°	1966	1962	1958	1952	1958	555
25°	1840	1834	1826	1813	1821	848
35°	1662	1658	1642	1627	1630	1039
45°	1440	1435	1419	1406	1408	1112
55°	1175	1170	1149	1137	1147	1050
65°	854	843	823	830	842	844
75°	483	478	478	432	416	513
85°	131	126	130	133	134	148
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2032.4	2032.4	2032.4	2032.4	2032.4
2.5°	2038.4	2034.1	2031.6	2026.5	2037.6
5°	2034.1	2029.1	2026.5	2022.3	2032.4
7.5°	2023.1	2018.8	2016.3	2009.5	2022.3
10°	2007.8	2004.4	1998.4	1996.8	2006.1
12.5°	1989.9	1983.1	1981.4	1976.3	1985.7
15°	1966.1	1961.9	1957.6	1951.7	1957.6
17.5°	1940.6	1935.6	1929.6	1922.8	1931.3
20°	1910.9	1904.9	1898.1	1889.6	1906.6
22.5°	1876.9	1870.9	1865.0	1853.1	1860.8
25°	1840.3	1834.4	1825.9	1813.1	1820.8
27.5°	1797.8	1795.3	1783.4	1767.3	1776.6
30°	1755.3	1751.1	1740.9	1723.1	1728.1
32.5°	1709.4	1705.1	1691.6	1676.3	1682.3
35°	1661.8	1658.4	1642.3	1627.0	1630.4
37.5°	1608.3	1603.1	1591.3	1573.4	1578.5
40°	1553.9	1551.3	1536.0	1518.1	1526.6
42.5°	1501.1	1496.1	1477.4	1464.6	1469.8
45°	1440.0	1434.9	1418.8	1406.0	1408.5
47.5°	1379.6	1376.3	1355.8	1343.9	1349.8
50°	1315.8	1311.6	1292.1	1279.3	1286.1
52.5°	1248.7	1241.1	1222.3	1210.5	1217.3
55°	1174.8	1169.6	1149.3	1137.3	1146.7
57.5°	1100.8	1093.1	1072.8	1066.0	1071.9
60°	1022.6	1012.4	992.8	988.6	1001.3
62.5°	942.7	930.0	906.1	914.6	924.8
65°	853.5	843.3	822.8	830.5	841.5
67.5°	766.8	754.0	743.0	745.5	752.3
70°	674.1	660.5	658.0	651.1	643.5
72.5°	580.6	567.0	568.7	549.1	534.7
75°	482.8	477.7	477.7	431.8	416.5
77.5°	393.6	391.0	371.5	332.3	337.5
80°	300.0	306.8	268.6	281.3	290.7
82.5°	210.8	217.6	206.5	210.0	210.8
85°	130.9	125.8	130.0	132.6	133.5
87.5°	51.0	57.8	58.7	62.9	66.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)