

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: P184354

Luminaire Tested: **ENW/ENC-12-4-LD1-25-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184354
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P32840)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-12-4-LD1-25-40-CP187-UNV-EDC1
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: CLUNVCC161023VD010

Summary

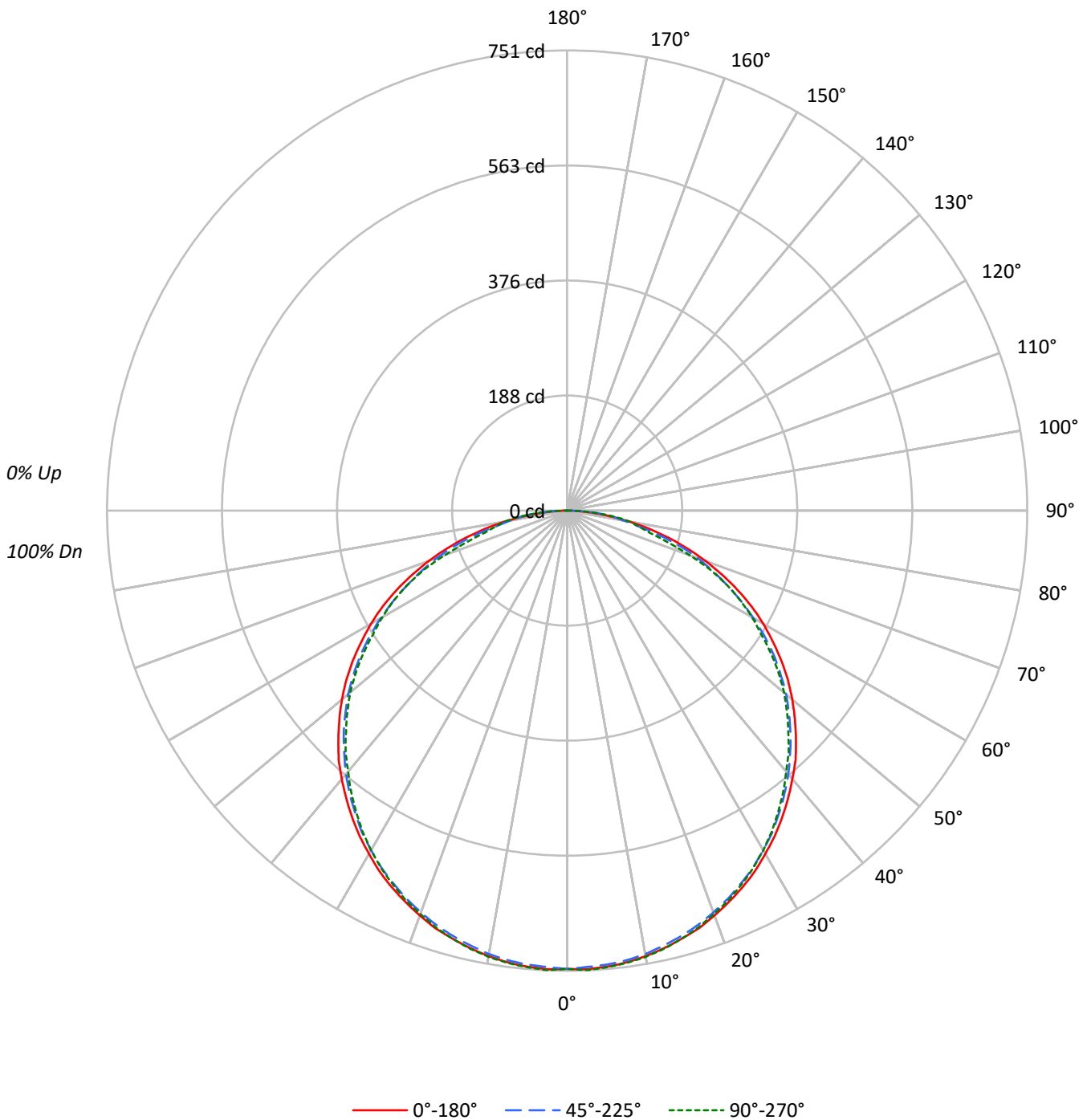
Lumens per Lamp: N/A
Luminaire Lumens: 2241.2 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 25
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	108	103	99	95	106	101	97	93	97	94	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2013	2013	2013
5°	2014	1994	2003
10°	2009	1977	1985
15°	2002	1957	1963
20°	1996	1936	1936
25°	1989	1915	1910
30°	1981	1892	1880
35°	1975	1865	1843
40°	1968	1837	1803
45°	1961	1804	1766
50°	1950	1767	1729
55°	1934	1716	1666
60°	1907	1639	1599
65°	1857	1541	1509
70°	1769	1432	1309
75°	1623	1224	1053
80°	1386	954	1027
85°	970	771	697



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.0	3.2
10°-20°	203.8	9.1
20°-30°	310.7	13.9
30°-40°	378.5	16.9
40°-50°	399.5	17.8
50°-60°	369.9	16.5
60°-70°	289.2	12.9
70°-80°	166.2	7.4
80°-90°	52.4	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°	585.5	26.1
0°-40°	964.0	43.0
0°-60°	1733.4	77.3
0°-90°	2241.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2241.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	748	748	748	748	748	
5°	747	746	744	747	748	71
15°	723	723	719	723	723	204
25°	678	676	672	673	673	313
35°	612	609	603	601	600	383
45°	528	525	516	512	510	408
55°	427	422	412	408	406	381
65°	307	299	288	287	288	303
75°	171	165	157	142	139	180
85°	40	43	50	48	48	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	748.1	748.1	748.1	748.1	748.1
2.5°	749.0	749.0	745.5	749.9	750.7
5°	747.3	746.3	743.7	747.3	748.1
7.5°	743.7	742.9	740.3	743.7	744.6
10°	738.5	737.5	734.9	738.5	739.4
12.5°	731.4	730.5	727.1	730.5	732.3
15°	723.4	722.6	719.0	722.6	723.4
17.5°	714.8	713.0	709.4	713.0	713.0
20°	703.3	701.5	697.9	700.6	700.6
22.5°	690.9	689.2	685.6	687.4	688.3
25°	677.8	676.0	671.5	673.3	673.3
27.5°	663.7	661.0	656.6	657.5	657.5
30°	646.8	644.2	639.9	640.8	639.9
32.5°	630.2	627.6	623.2	621.3	621.3
35°	611.7	609.0	602.9	601.2	600.3
37.5°	592.3	588.8	582.7	580.0	579.1
40°	572.1	567.7	561.6	558.9	556.2
42.5°	551.8	546.6	538.7	535.1	535.1
45°	528.1	524.6	515.8	512.2	510.5
47.5°	504.3	500.8	491.1	487.6	486.7
50°	479.6	476.2	466.5	462.1	462.1
52.5°	454.1	449.8	439.2	434.8	434.8
55°	426.9	421.6	411.9	407.5	405.8
57.5°	397.8	394.4	382.0	377.5	375.8
60°	369.7	363.4	351.1	346.8	348.5
62.5°	339.7	332.7	320.4	316.9	319.5
65°	307.2	299.2	287.8	286.9	287.8
67.5°	273.7	266.7	257.0	255.3	253.5
70°	240.3	233.2	226.2	216.5	212.1
72.5°	206.0	198.9	193.6	176.9	171.6
75°	170.7	164.6	156.6	141.7	139.1
77.5°	136.5	131.1	119.7	116.2	118.8
80°	102.1	102.1	92.4	100.3	103.9
82.5°	69.5	69.5	74.8	81.0	79.2
85°	40.4	43.1	50.2	48.4	48.4
87.5°	17.6	22.0	22.0	22.0	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)