

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: P184338

Luminaire Tested: **ENW/ENC-12-2-LD1-13-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184338
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ENW/ENC-12-2-LD1-13-40-CP187-UNV-EDC1
Description: FAIL-SAFE ENCOUNTER W/ 0.187" THICK CLEAR POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

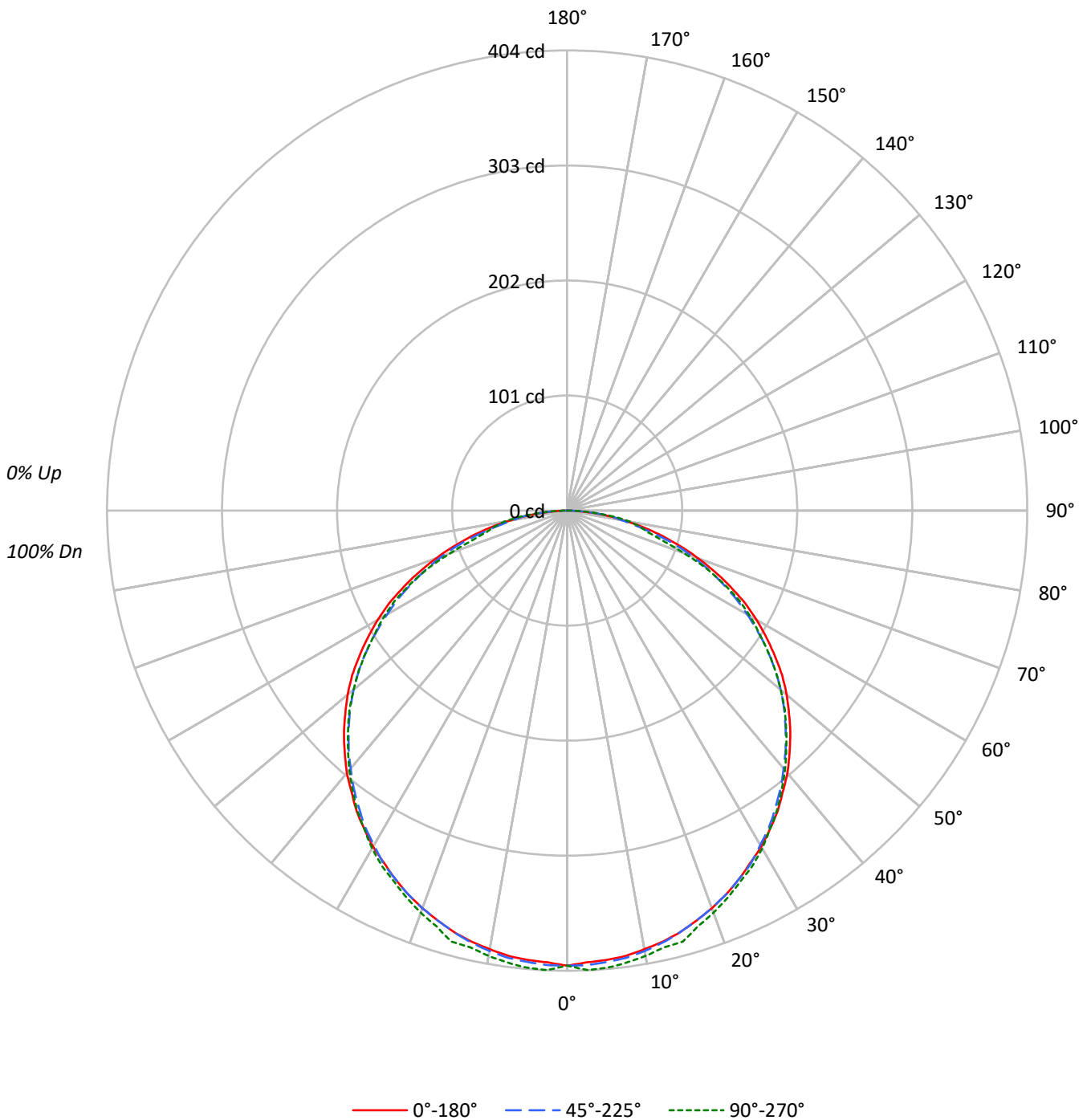
Lumens per Lamp: N/A
Luminaire Lumens: 1179.7 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 15.7
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	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	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	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2150	2150	2150
5°	2131	2129	2158
10°	2118	2107	2132
15°	2107	2077	2126
20°	2090	2049	2076
25°	2072	2020	2040
30°	2058	1986	2012
35°	2045	1949	1973
40°	2029	1908	1928
45°	2009	1866	1882
50°	1988	1820	1831
55°	1950	1752	1765
60°	1903	1661	1700
65°	1818	1552	1587
70°	1693	1420	1343
75°	1519	1190	1107
80°	1251	939	1110
85°	833	689	735



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	3.2
10°-20°	108.6	9.2
20°-30°	164.9	14.0
30°-40°	200.3	17.0
40°-50°	210.6	17.8
50°-60°	193.9	16.4
60°-70°	150.7	12.8
70°-80°	85.9	7.3
80°-90°	27.0	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°	311.3	26.4
0°-40°	511.6	43.4
0°-60°	916.1	77.7
0°-90°	1179.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1179.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	400	400	400	400	400	
5°	396	397	398	400	403	38
15°	383	384	383	385	392	108
25°	357	358	357	358	360	165
35°	322	321	319	319	321	201
45°	277	275	271	270	272	214
55°	223	221	215	213	215	199
65°	158	156	150	151	151	156
75°	87	85	80	73	73	92
85°	21	23	25	26	26	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	399.5	399.5	399.5	399.5	399.5
2.5°	397.0	398.7	399.5	400.3	403.7
5°	396.1	397.0	397.8	399.5	402.9
7.5°	394.4	395.2	396.1	398.7	400.3
10°	391.0	391.8	392.7	393.5	397.0
12.5°	387.6	388.5	388.5	390.2	392.7
15°	383.3	384.2	383.3	385.0	391.8
17.5°	377.4	380.0	377.4	379.1	382.5
20°	371.5	372.3	371.5	372.3	375.7
22.5°	364.7	364.7	364.7	363.8	368.0
25°	357.0	357.8	357.0	357.8	359.5
27.5°	348.5	350.2	349.3	348.5	351.9
30°	340.8	340.8	339.2	339.2	342.5
32.5°	331.5	333.2	329.8	329.8	331.5
35°	322.2	321.3	318.7	318.7	321.3
37.5°	311.1	310.2	307.7	306.8	309.4
40°	300.9	299.2	295.8	295.8	297.5
42.5°	289.0	287.3	283.9	283.0	284.7
45°	277.1	275.4	271.2	270.3	272.0
47.5°	264.3	263.5	258.4	257.5	259.2
50°	251.6	249.9	244.8	243.1	244.8
52.5°	238.0	235.5	230.3	228.7	230.3
55°	222.7	221.0	215.0	213.3	215.0
57.5°	207.4	205.7	198.9	198.0	199.7
60°	192.1	189.5	182.7	182.7	185.3
62.5°	176.0	172.5	166.6	167.5	170.0
65°	158.1	155.5	149.6	151.3	151.3
67.5°	140.2	138.5	133.5	132.6	131.7
70°	122.4	120.7	116.5	112.2	108.8
72.5°	104.5	102.0	99.5	90.1	88.4
75°	86.7	85.0	79.9	73.1	73.1
77.5°	69.7	68.8	62.0	62.0	65.5
80°	51.8	52.7	48.5	53.5	56.1
82.5°	36.5	35.7	39.1	41.7	41.7
85°	21.2	23.0	24.7	25.5	25.5
87.5°	9.3	10.2	10.2	11.0	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)