

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: P184336

Luminaire Tested: **ENW/ENC-12-2-LD1-13-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184336
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-CA125-UNV-EDC1
Description: FAIL-SAFE ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

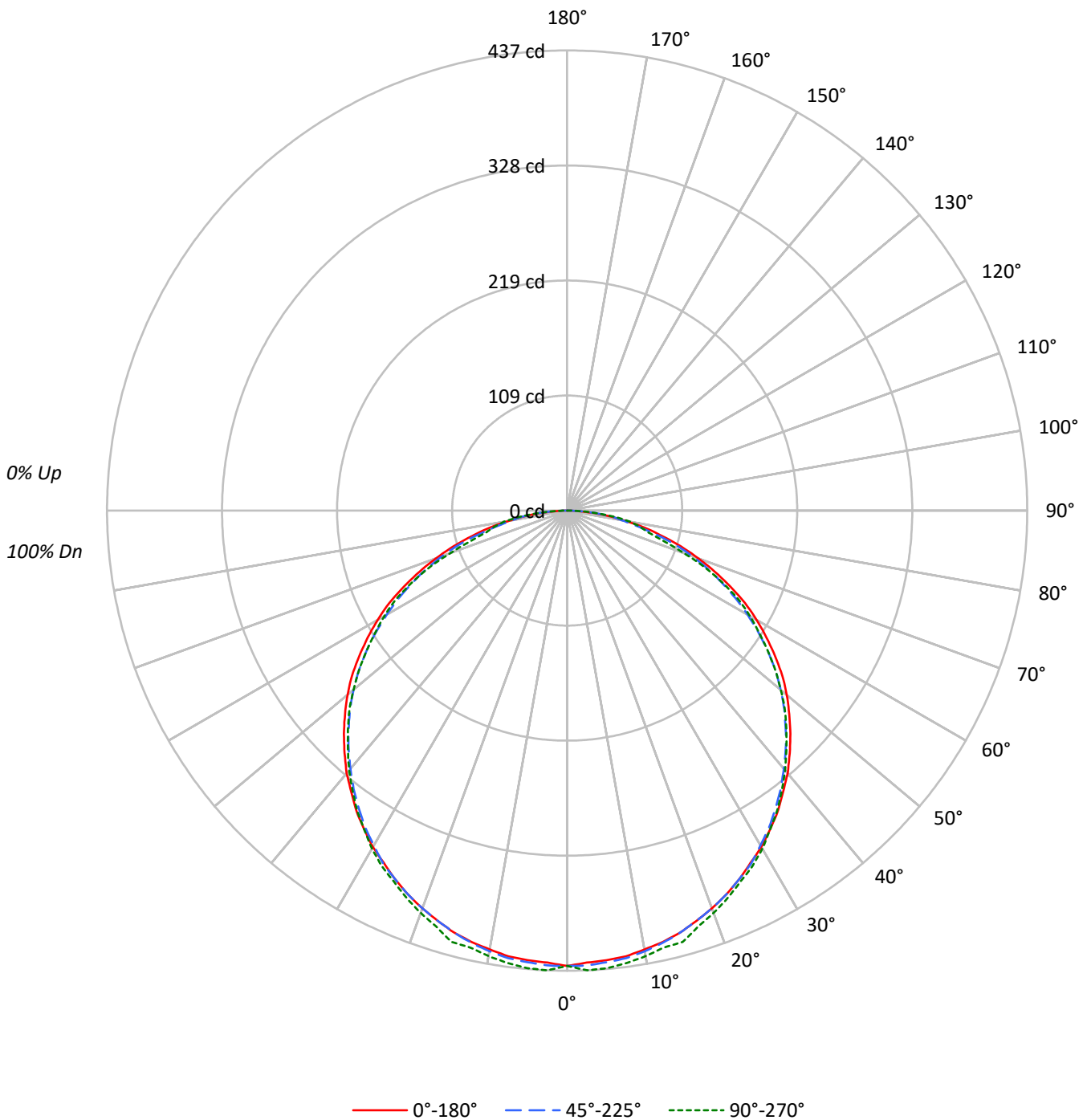
Lumens per Lamp: N/A
Luminaire Lumens: 1276.9 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')
CIE Type: Direct

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°	2327	2327	2327
5°	2306	2304	2336
10°	2293	2280	2307
15°	2281	2248	2301
20°	2261	2217	2247
25°	2242	2186	2208
30°	2228	2150	2178
35°	2214	2110	2135
40°	2196	2065	2087
45°	2174	2020	2037
50°	2152	1969	1982
55°	2112	1896	1911
60°	2059	1799	1840
65°	1968	1680	1717
70°	1833	1537	1453
75°	1646	1289	1198
80°	1355	1016	1200
85°	904	745	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.0	3.2
10°-20°	117.5	9.2
20°-30°	178.4	14.0
30°-40°	216.8	17.0
40°-50°	227.9	17.8
50°-60°	209.9	16.4
60°-70°	163.1	12.8
70°-80°	93.0	7.3
80°-90°	29.3	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°	336.9	26.4
0°-40°	553.7	43.4
0°-60°	991.6	77.7
0°-90°	1276.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1276.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	432	432	432	432	432	
5°	429	430	430	432	436	41
15°	415	416	415	417	424	117
25°	386	387	386	387	389	178
35°	349	348	345	345	348	218
45°	300	298	294	292	294	231
55°	241	239	233	231	233	216
65°	171	168	162	164	164	169
75°	94	92	86	79	79	99
85°	23	25	27	28	28	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	432.4	432.4	432.4	432.4	432.4
2.5°	429.6	431.5	432.4	433.3	437.0
5°	428.7	429.6	430.5	432.4	436.1
7.5°	426.9	427.8	428.7	431.5	433.3
10°	423.2	424.1	425.0	425.9	429.6
12.5°	419.5	420.4	420.4	422.3	425.0
15°	414.9	415.8	414.9	416.7	424.1
17.5°	408.5	411.2	408.5	410.3	414.0
20°	402.0	402.9	402.0	402.9	406.6
22.5°	394.7	394.7	394.7	393.7	398.3
25°	386.4	387.3	386.4	387.3	389.1
27.5°	377.2	379.1	378.1	377.2	380.9
30°	368.9	368.9	367.1	367.1	370.7
32.5°	358.8	360.7	356.9	356.9	358.8
35°	348.7	347.7	345.0	345.0	347.7
37.5°	336.7	335.8	333.1	332.1	334.9
40°	325.7	323.9	320.1	320.1	322.0
42.5°	312.8	310.9	307.3	306.3	308.2
45°	299.9	298.1	293.5	292.5	294.4
47.5°	286.1	285.2	279.7	278.7	280.6
50°	272.3	270.5	264.9	263.1	264.9
52.5°	257.6	254.9	249.3	247.5	249.3
55°	241.1	239.2	232.7	230.9	232.7
57.5°	224.5	222.7	215.3	214.3	216.2
60°	207.9	205.1	197.8	197.8	200.5
62.5°	190.5	186.7	180.3	181.3	184.0
65°	171.1	168.3	161.9	163.7	163.7
67.5°	151.8	149.9	144.5	143.5	142.6
70°	132.5	130.7	126.1	121.5	117.7
72.5°	113.1	110.4	107.7	97.5	95.7
75°	93.9	92.0	86.5	79.1	79.1
77.5°	75.5	74.5	67.1	67.1	70.9
80°	56.1	57.1	52.5	57.9	60.7
82.5°	39.5	38.7	42.3	45.1	45.1
85°	23.0	24.9	26.7	27.6	27.6
87.5°	10.1	11.1	11.1	11.9	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)