

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: P184346

Luminaire Tested: **ENW/ENC-12-2-LD1-27-40-CP187-UNV-EDC1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P184346
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-LD1-27-40-CP187-UNV-EDC1
Description: FAIL-SAFE 1X2 ENCOUNTER W/ 0.187" THICK POLY LENS
Light Source: 4000K LEDS
Ballast/Driver: -

Summary

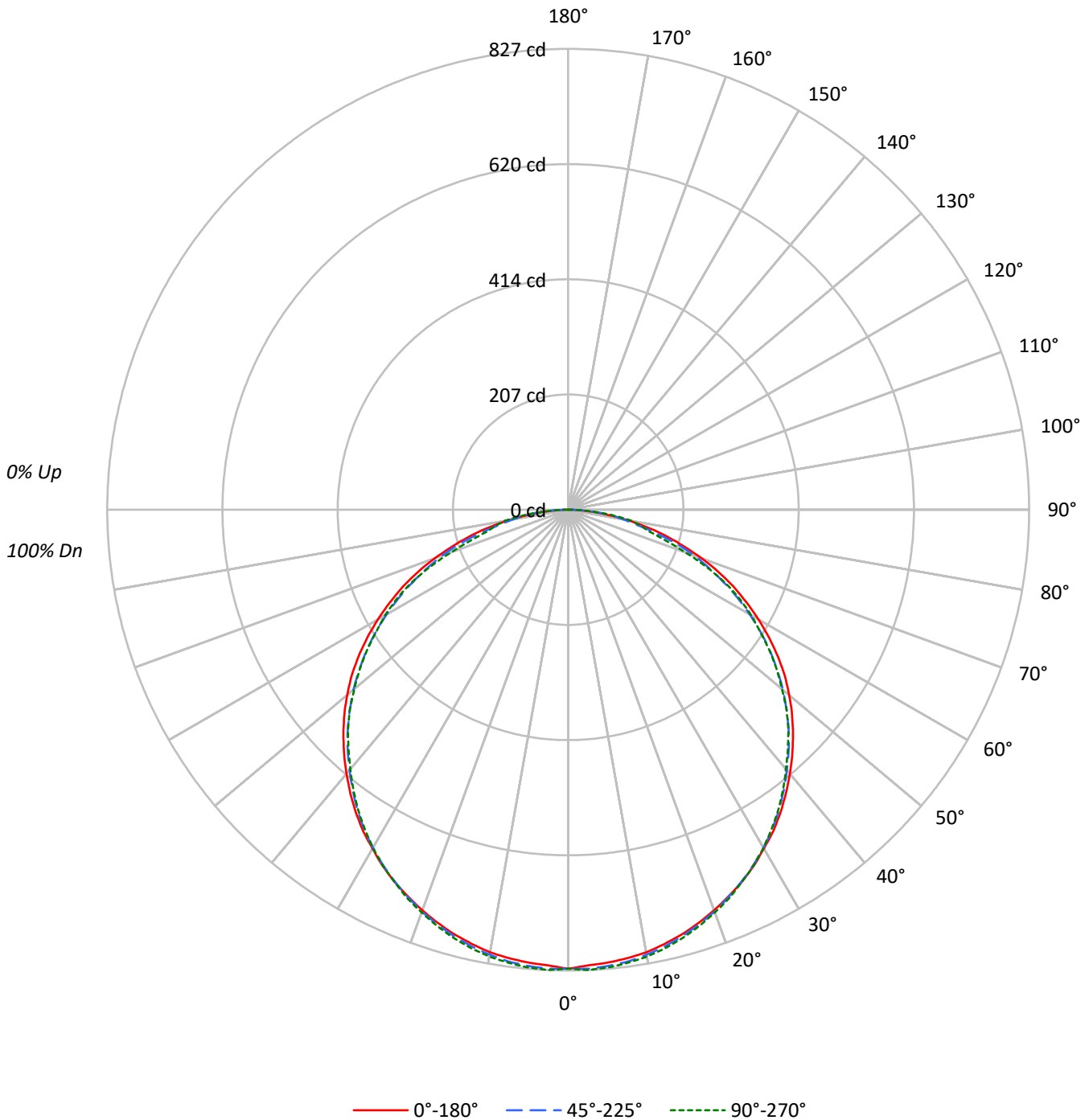
Lumens per Lamp: N/A
Luminaire Lumens: 2426.2 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.26 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 2' x H: 0.1')
CIE Type: Direct

Input Watts (W): 29.4
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	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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69					69			
3	90	79	70	64	87	77	69	63	74	68	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	26	51	38	31	26	37	30	25	37	30	25	36	30	25	23					23			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4433	4433	4433
5°	4389	4400	4416
10°	4370	4350	4373
15°	4337	4292	4317
20°	4303	4232	4251
25°	4277	4165	4182
30°	4241	4102	4115
35°	4214	4029	4034
40°	4172	3937	3939
45°	4134	3849	3864
50°	4091	3740	3746
55°	4020	3602	3623
60°	3907	3424	3478
65°	3763	3192	3262
70°	3517	2930	2759
75°	3172	2443	2265
80°	2608	1926	2286
85°	1737	1424	1493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.1	3.2
10°-20°	223.5	9.2
20°-30°	339.7	14.0
30°-40°	412.3	17.0
40°-50°	432.8	17.8
50°-60°	398.4	16.4
60°-70°	309.5	12.8
70°-80°	176.7	7.3
80°-90°	55.2	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°	641.3	26.4
0°-40°	1053.6	43.4
0°-60°	1884.9	77.7
0°-90°	2426.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2426.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	824	824	824	824	824	
5°	816	818	822	824	824	78
15°	789	790	792	794	796	223
25°	737	737	736	738	737	340
35°	664	661	659	657	657	415
45°	570	566	559	555	558	440
55°	459	453	442	440	441	410
65°	327	320	308	311	311	323
75°	181	174	164	151	150	191
85°	44	46	51	50	52	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	823.7	823.7	823.7	823.7	823.7
2.5°	818.5	821.1	824.5	827.0	827.0
5°	816.0	818.5	822.0	824.5	824.5
7.5°	811.7	814.3	817.7	819.4	820.2
10°	806.7	807.5	810.9	813.5	814.3
12.5°	798.2	799.0	802.4	804.1	805.8
15°	788.8	789.7	792.2	793.9	795.6
17.5°	777.7	778.6	780.3	782.0	782.8
20°	765.0	765.8	767.5	768.4	769.2
22.5°	751.4	752.2	752.2	754.0	754.8
25°	737.0	737.0	736.1	737.8	737.0
27.5°	720.8	720.0	719.1	719.1	720.0
30°	702.1	701.2	700.4	700.4	700.4
32.5°	684.2	681.7	680.8	679.2	679.2
35°	663.8	661.3	658.7	657.0	657.0
37.5°	641.7	639.2	635.0	632.4	633.2
40°	618.8	616.2	610.3	607.7	607.7
42.5°	595.0	591.6	585.7	582.2	583.1
45°	570.3	566.1	559.3	555.0	558.5
47.5°	544.8	539.7	531.2	527.8	531.2
50°	517.7	512.5	503.2	499.0	500.7
52.5°	489.6	483.7	472.6	470.0	471.7
55°	459.0	453.0	442.0	439.5	441.2
57.5°	427.5	422.5	409.7	406.3	408.8
60°	394.4	388.5	376.5	374.8	379.1
62.5°	360.4	354.5	342.5	343.4	346.8
65°	327.2	319.6	307.7	311.1	311.1
67.5°	291.5	283.9	273.7	272.0	268.6
70°	254.2	248.2	240.5	229.5	223.5
72.5°	216.7	210.8	204.0	185.3	181.9
75°	181.0	174.2	164.0	151.3	149.6
77.5°	144.5	140.2	127.5	127.5	132.6
80°	108.0	106.2	99.5	110.5	115.6
82.5°	73.1	72.2	79.9	84.2	84.2
85°	44.2	45.9	51.0	50.2	51.8
87.5°	18.7	21.2	22.1	23.0	23.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)