

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: P184352

Luminaire Tested: **ENW/ENC-12-4-LD1-25-40-CA125-UNV-EDC1**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P184352  
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-CA125-UNV-EDC1  
Description: FAIL-SAFE 1X4 ENCOUNTER W/ 0.125" THICK CLEAR ACRYLIC LENS  
Light Source: 4000K LEDS  
Ballast/Driver: CLUNVCC161023VD010

**Summary**

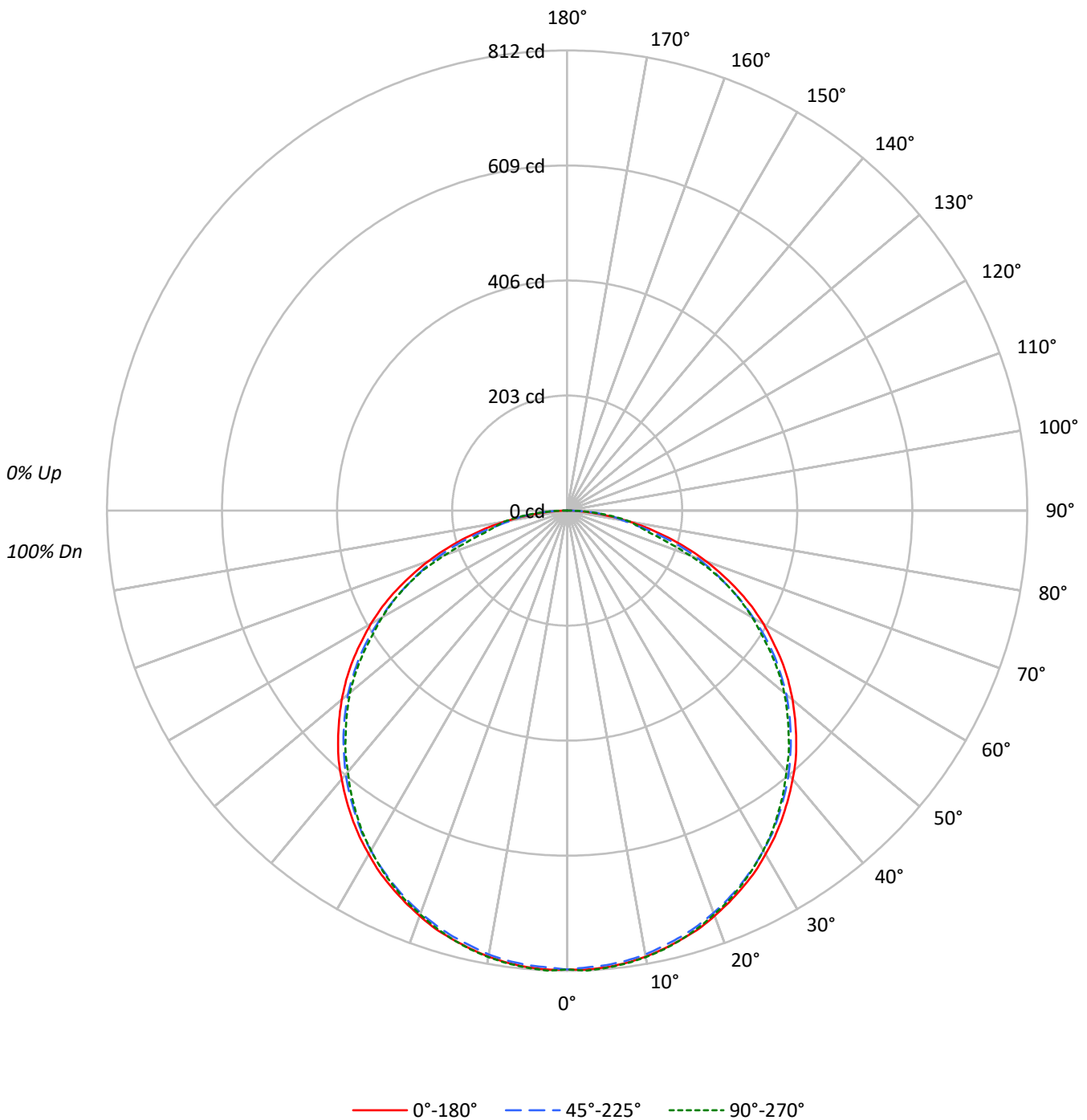
Lumens per Lamp: N/A  
Luminaire Lumens: 2425.6 lumens  
Efficiency: N/A  
Efficacy: 97.0 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 1.27 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 4' x H: 0.1')  
CIE Type: Direct

Input Watts (W): 25  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	106	101	97	93	97	94	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	65	61	69	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	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	39	51	44	39	50	43	39	37					37			
7	64	50	41	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32					32			
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29					29			
9	56	42	34	28	54	41	34	28	40	33	28	39	33	28	38	32	28	26					26			
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23					23			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2179	2179	2179
5°	2180	2158	2168
10°	2174	2140	2149
15°	2167	2118	2124
20°	2160	2096	2095
25°	2153	2073	2067
30°	2144	2047	2034
35°	2137	2019	1995
40°	2130	1988	1951
45°	2122	1952	1911
50°	2110	1912	1871
55°	2093	1857	1803
60°	2064	1774	1730
65°	2009	1667	1633
70°	1914	1550	1417
75°	1757	1325	1140
80°	1500	1032	1112
85°	1049	834	755



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.8	3.2
10°-20°	220.6	9.1
20°-30°	336.3	13.9
30°-40°	409.6	16.9
40°-50°	432.4	17.8
50°-60°	400.3	16.5
60°-70°	313.0	12.9
70°-80°	179.8	7.4
80°-90°	56.8	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°	633.7	26.1
0°-40°	1043.3	43.0
0°-60°	1876.0	77.3
0°-90°	2425.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2425.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	809	808	805	809	810	77
15°	783	782	778	782	783	221
25°	734	732	727	729	729	338
35°	662	659	652	651	650	414
45°	572	568	558	554	552	441
55°	462	456	446	441	439	412
65°	332	324	312	310	312	328
75°	185	178	170	153	150	195
85°	44	47	54	52	52	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	809.7	809.7	809.7	809.7	809.7
2.5°	810.7	810.7	806.8	811.6	812.5
5°	808.8	807.7	804.9	808.8	809.7
7.5°	804.9	804.0	801.2	804.9	805.9
10°	799.2	798.2	795.4	799.2	800.2
12.5°	791.6	790.6	786.9	790.6	792.6
15°	783.0	782.1	778.2	782.1	783.0
17.5°	773.6	771.6	767.8	771.6	771.6
20°	761.1	759.2	755.4	758.2	758.2
22.5°	747.7	745.9	742.1	744.0	744.9
25°	733.5	731.6	726.8	728.7	728.7
27.5°	718.3	715.3	710.6	711.6	711.6
30°	700.1	697.2	692.5	693.5	692.5
32.5°	682.1	679.2	674.4	672.5	672.5
35°	662.0	659.2	652.5	650.6	649.7
37.5°	641.0	637.2	630.7	627.7	626.8
40°	619.1	614.4	607.8	604.8	602.0
42.5°	597.2	591.5	583.0	579.1	579.1
45°	571.6	567.7	558.3	554.3	552.5
47.5°	545.8	542.0	531.5	527.7	526.7
50°	519.1	515.4	504.9	500.1	500.1
52.5°	491.5	486.8	475.4	470.6	470.6
55°	462.0	456.3	445.8	441.0	439.1
57.5°	430.5	426.8	413.4	408.6	406.7
60°	400.1	393.3	380.0	375.3	377.2
62.5°	367.7	360.1	346.8	342.9	345.8
65°	332.5	323.9	311.5	310.5	311.5
67.5°	296.3	288.6	278.1	276.3	274.3
70°	260.0	252.4	244.8	234.3	229.5
72.5°	222.9	215.3	209.5	191.4	185.8
75°	184.8	178.1	169.5	153.4	150.5
77.5°	147.7	141.9	129.6	125.8	128.6
80°	110.5	110.5	100.0	108.5	112.5
82.5°	75.3	75.3	80.9	87.7	85.7
85°	43.7	46.7	54.3	52.4	52.4
87.5°	19.1	23.8	23.8	23.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)