

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: P488552

Luminaire Tested: **CLM-12-4-INS-A12125-LD4-1LO-50-120-EDD-90**

Issue Date: 3/11/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P488552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-12-4-INS-A12125-LD4-1LO-50-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH A12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

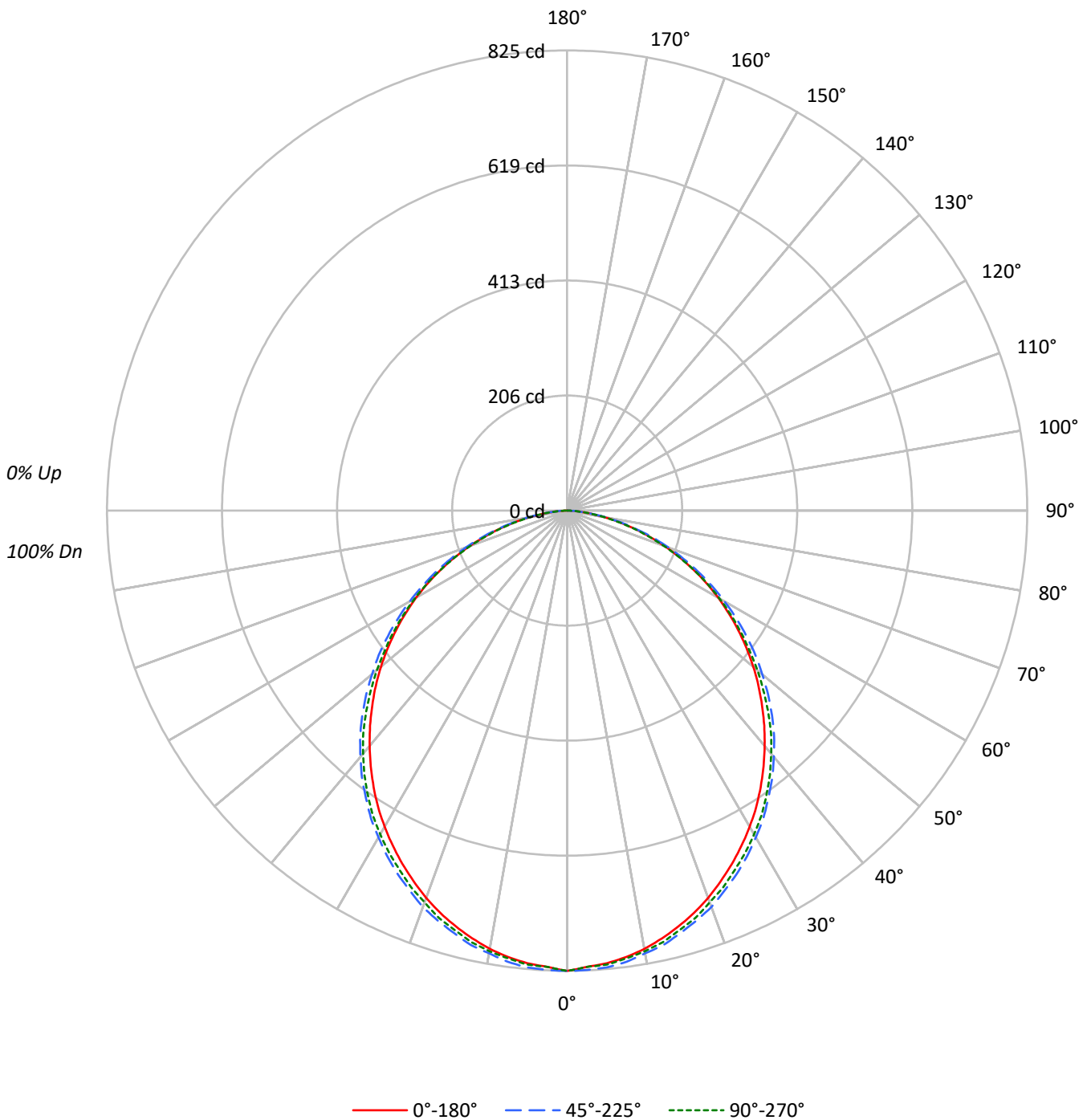
Lumens per Lamp: N/A
Luminaire Lumens: 2169.8 lumens
Efficiency: N/A
Efficacy: 92.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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	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	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2221	2221	2221
5°	2200	2221	2207
10°	2180	2202	2192
15°	2150	2185	2169
20°	2116	2166	2140
25°	2075	2135	2111
30°	2033	2102	2083
35°	1987	2066	2047
40°	1936	2025	1999
45°	1881	1976	1939
50°	1825	1913	1863
55°	1758	1841	1784
60°	1683	1753	1699
65°	1587	1647	1588
70°	1460	1519	1444
75°	1286	1343	1266
80°	1044	1089	1032
85°	729	775	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	3.6
10°-20°	220.3	10.2
20°-30°	328.5	15.1
30°-40°	389.3	17.9
40°-50°	393.9	18.2
50°-60°	344.0	15.9
60°-70°	251.4	11.6
70°-80°	133.8	6.2
80°-90°	30.9	1.4
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°	626.5	28.9
0°-40°	1015.8	46.8
0°-60°	1753.7	80.8
0°-90°	2169.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2169.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	825	825	825	825	825	
5°	815	816	822	824	817	77
15°	772	777	784	789	779	218
25°	699	707	719	722	711	322
35°	605	614	629	633	623	378
45°	494	503	519	520	510	381
55°	375	382	392	387	380	335
65°	249	254	259	254	249	247
75°	124	126	129	124	122	131
85°	24	24	25	25	24	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	825.3	825.3	825.3	825.3	825.3
2.5°	818.9	821.5	824.3	825.5	818.8
5°	814.6	816.1	822.2	824.1	817.1
7.5°	807.5	809.8	815.8	816.6	809.9
10°	797.9	802.0	806.0	810.3	802.1
12.5°	785.6	791.2	797.9	798.7	792.5
15°	771.7	776.9	784.2	788.9	778.7
17.5°	756.3	761.3	770.7	771.6	765.4
20°	739.0	745.2	756.5	758.5	747.4
22.5°	719.4	727.7	737.2	739.1	730.9
25°	698.8	707.4	719.1	721.8	710.9
27.5°	677.3	685.6	698.7	700.6	691.4
30°	654.3	662.0	676.5	679.7	670.3
32.5°	630.9	638.6	654.6	657.3	648.2
35°	604.9	614.4	628.9	633.3	623.1
37.5°	578.4	587.6	604.2	608.1	597.1
40°	551.0	560.1	576.4	579.6	569.1
42.5°	523.0	532.1	549.5	550.0	541.2
45°	494.3	503.1	519.3	519.7	509.5
47.5°	465.3	474.1	488.6	487.0	477.3
50°	435.9	444.3	456.9	453.7	445.0
52.5°	405.4	413.6	425.6	420.2	412.1
55°	374.8	382.4	392.4	386.7	380.3
57.5°	344.0	351.6	359.3	353.5	348.0
60°	312.8	319.5	325.8	320.0	315.7
62.5°	281.2	286.9	292.4	286.8	282.8
65°	249.2	254.3	258.7	253.6	249.4
67.5°	217.4	221.7	225.8	220.5	216.1
70°	185.6	189.3	193.0	187.5	183.5
72.5°	154.2	157.4	160.8	155.5	151.9
75°	123.7	126.5	129.2	124.5	121.8
77.5°	94.5	96.9	98.8	95.8	93.1
80°	67.4	69.2	70.3	69.1	66.6
82.5°	43.3	44.6	45.2	45.1	43.5
85°	23.6	24.0	25.1	25.4	24.5
87.5°	9.1	9.7	10.0	10.7	9.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)