

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: P489875

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4LO-20-120-EDD**

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: P489875
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P387254)
Test Lab: INNOVATION CENTER
Issue Date: 3/11/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLM-24-4-INS-P12125-LD4-4LO-20-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

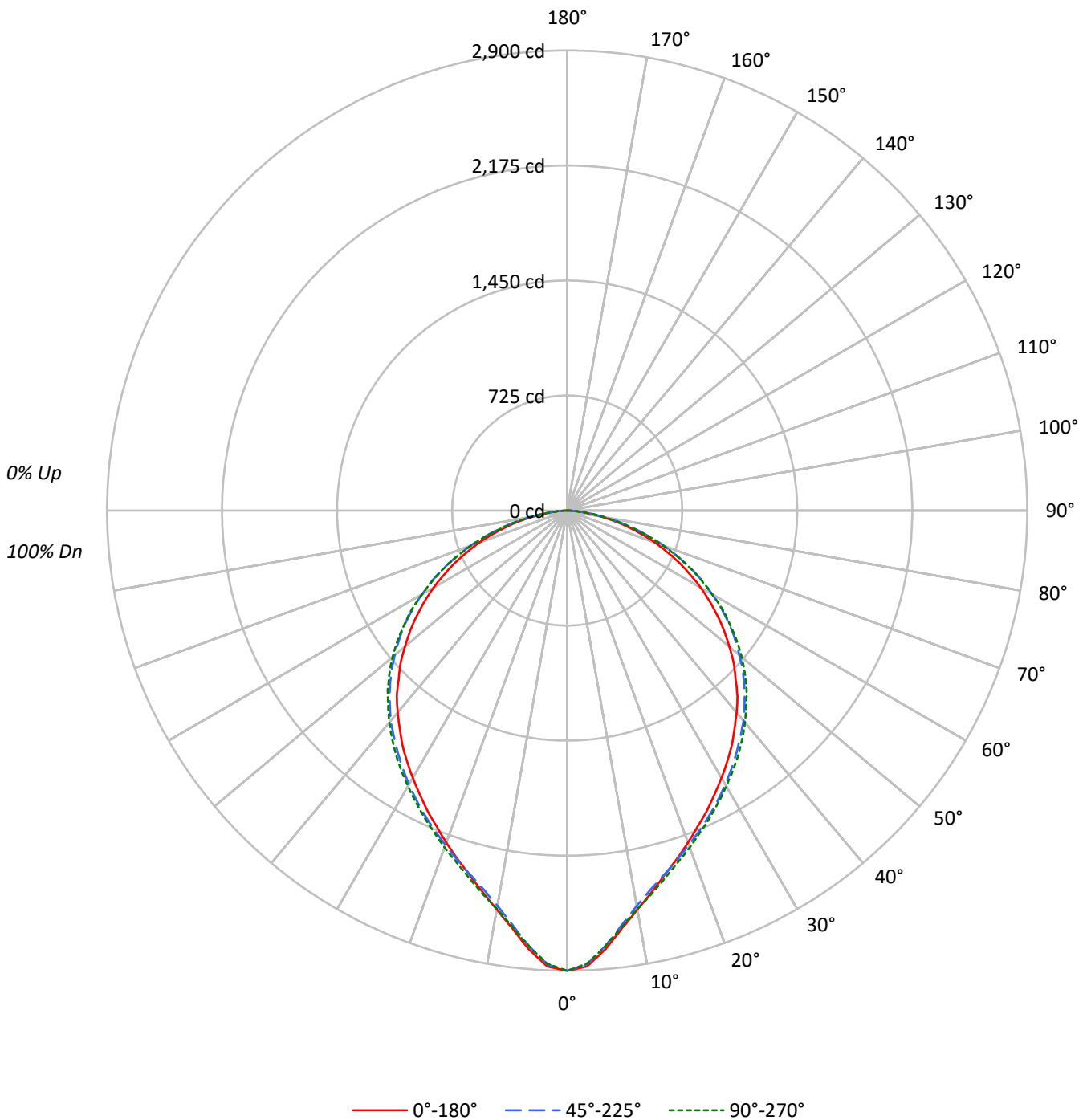
Lumens per Lamp: N/A
Luminaire Lumens: 6736.8 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 93.6
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	109	104	100	96	106	102	98	95	98	95	92		94	91	89		90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76		82	78	74		79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70	65	61	59
4	83	71	62	55	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47		58	52	46		56	51	46	44
6	70	57	48	42	68	56	48	42	54	47	41		53	46	41		51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	37		48	41	36		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	37	33		43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3902	3902	3902
5°	3747	3720	3720
10°	3487	3456	3482
15°	3309	3303	3335
20°	3188	3211	3235
25°	3096	3147	3165
30°	3022	3096	3116
35°	2970	3057	3088
40°	2917	3036	3061
45°	2857	3006	3042
50°	2794	2969	3008
55°	2717	2926	2938
60°	2619	2845	2840
65°	2483	2736	2718
70°	2318	2552	2520
75°	2046	2261	2238
80°	1662	1842	1752
85°	1153	1175	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.3	3.8
10°-20°	671.3	10.0
20°-30°	976.2	14.5
30°-40°	1161.6	17.2
40°-50°	1206.2	17.9
50°-60°	1092.7	16.2
60°-70°	824.6	12.2
70°-80°	449.3	6.7
80°-90°	98.7	1.5
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°	1903.7	28.3
0°-40°	3065.4	45.5
0°-60°	5364.2	79.6
0°-90°	6736.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6736.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2900	2900	2900	2900	2900	
5°	2774	2768	2755	2753	2755	257
15°	2376	2370	2371	2387	2394	671
25°	2086	2103	2120	2137	2132	961
35°	1808	1830	1861	1889	1880	1130
45°	1502	1528	1580	1597	1599	1161
55°	1158	1186	1247	1256	1252	1034
65°	780	802	860	858	854	771
75°	394	410	435	438	430	419
85°	75	75	76	75	73	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2900.3	2900.3	2900.3	2900.3	2900.3
2.5°	2874.9	2872.0	2862.6	2859.0	2858.2
5°	2774.2	2767.7	2754.6	2753.2	2754.6
7.5°	2653.9	2646.6	2633.6	2638.7	2645.2
10°	2552.4	2534.3	2529.2	2536.5	2548.8
12.5°	2461.8	2447.3	2443.0	2461.8	2470.6
15°	2375.6	2369.8	2371.3	2387.2	2394.4
17.5°	2301.0	2297.3	2306.8	2319.1	2322.7
20°	2226.3	2233.6	2242.3	2255.3	2259.6
22.5°	2153.1	2166.9	2181.4	2198.8	2193.0
25°	2085.7	2103.1	2119.8	2137.2	2132.1
27.5°	2014.0	2034.2	2057.5	2076.3	2069.0
30°	1945.1	1970.5	1993.0	2016.1	2005.3
32.5°	1877.0	1900.9	1927.7	1956.0	1943.7
35°	1808.2	1829.9	1861.1	1889.3	1879.9
37.5°	1732.1	1758.9	1794.4	1819.0	1812.5
40°	1661.0	1685.7	1728.4	1744.4	1742.9
42.5°	1589.3	1609.6	1654.5	1672.6	1669.7
45°	1501.6	1528.4	1579.9	1597.3	1598.7
47.5°	1424.1	1446.5	1501.6	1515.4	1518.3
50°	1334.9	1363.2	1418.3	1434.9	1437.1
52.5°	1247.2	1277.6	1334.2	1345.8	1348.0
55°	1158.1	1185.6	1247.2	1255.9	1252.3
57.5°	1064.6	1097.9	1154.5	1158.8	1162.4
60°	973.3	1002.3	1057.3	1063.1	1055.2
62.5°	874.0	903.7	960.3	961.7	955.1
65°	779.8	802.2	859.5	858.1	853.7
67.5°	681.2	708.7	750.8	752.2	748.7
70°	589.2	608.0	648.6	649.4	640.7
72.5°	489.9	510.2	542.8	538.5	536.3
75°	393.5	409.5	434.9	437.7	430.5
77.5°	305.1	316.7	335.5	333.4	325.4
80°	214.5	223.9	237.7	234.8	226.1
82.5°	136.9	142.8	151.5	147.8	144.2
85°	74.7	75.3	76.1	75.3	73.2
87.5°	27.5	28.3	28.3	27.5	25.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)