

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: P489836

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-3HI-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: P489836
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-LD4-3HI-50-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

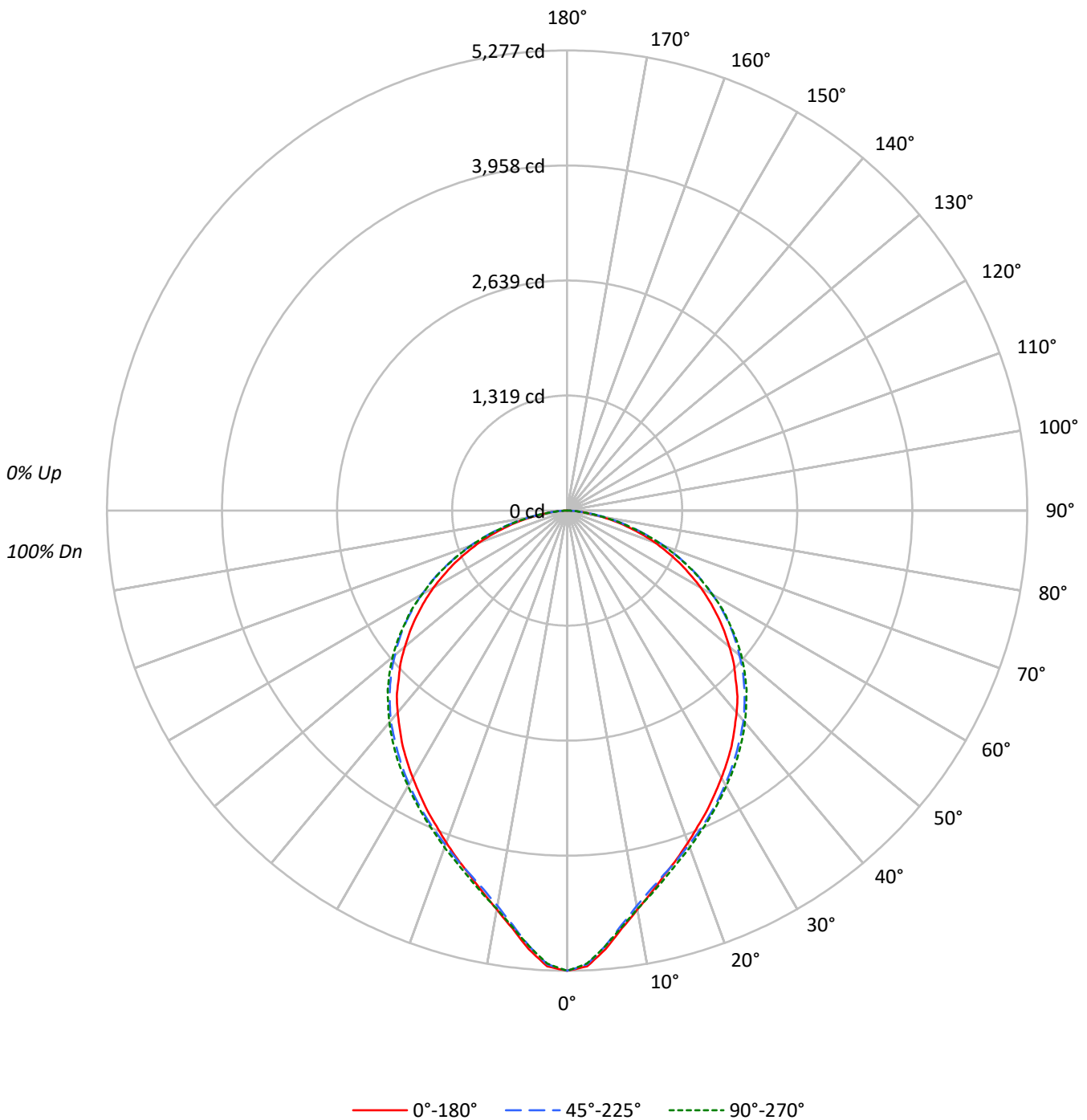
Lumens per Lamp: N/A
Luminaire Lumens: 12258.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	7101	7101	7101
5°	6818	6770	6770
10°	6345	6287	6336
15°	6021	6010	6069
20°	5800	5842	5887
25°	5634	5726	5759
30°	5499	5634	5669
35°	5404	5562	5618
40°	5309	5524	5570
45°	5199	5470	5535
50°	5084	5402	5474
55°	4943	5324	5345
60°	4765	5177	5167
65°	4517	4979	4945
70°	4217	4643	4586
75°	3722	4113	4072
80°	3024	3352	3188
85°	2098	2137	2056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.3	3.8
10°-20°	1221.4	10.0
20°-30°	1776.2	14.5
30°-40°	2113.6	17.2
40°-50°	2194.7	17.9
50°-60°	1988.3	16.2
60°-70°	1500.3	12.2
70°-80°	817.5	6.7
80°-90°	179.6	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°	3464.0	28.3
0°-40°	5577.6	45.5
0°-60°	9760.6	79.6
0°-90°	12258.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5277	5277	5277	5277	5277	
5°	5048	5036	5012	5010	5012	468
15°	4322	4312	4315	4344	4357	1220
25°	3795	3827	3857	3889	3880	1749
35°	3290	3330	3386	3438	3421	2057
45°	2732	2781	2875	2906	2909	2112
55°	2107	2157	2269	2285	2279	1881
65°	1419	1460	1564	1561	1553	1403
75°	716	745	791	796	783	763
85°	136	137	138	137	133	171
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5277.3	5277.3	5277.3	5277.3	5277.3
2.5°	5231.1	5225.8	5208.7	5202.1	5200.7
5°	5047.8	5035.9	5012.2	5009.6	5012.2
7.5°	4828.9	4815.7	4792.0	4801.2	4813.1
10°	4644.3	4611.3	4602.0	4615.3	4637.7
12.5°	4479.4	4453.1	4445.1	4479.4	4495.3
15°	4322.5	4312.0	4314.6	4343.7	4356.8
17.5°	4186.7	4180.1	4197.3	4219.7	4226.3
20°	4050.9	4064.1	4079.9	4103.7	4111.5
22.5°	3917.7	3942.7	3969.2	4000.8	3990.3
25°	3795.1	3826.7	3857.1	3888.7	3879.5
27.5°	3664.5	3701.4	3743.7	3778.0	3764.7
30°	3539.2	3585.4	3626.3	3668.5	3648.7
32.5°	3415.4	3458.8	3507.6	3559.1	3536.6
35°	3290.0	3329.6	3386.3	3437.8	3420.6
37.5°	3151.6	3200.4	3264.9	3309.8	3298.0
40°	3022.4	3067.2	3145.0	3174.0	3171.3
42.5°	2891.8	2928.8	3010.5	3043.4	3038.2
45°	2732.3	2781.0	2874.6	2906.4	2908.9
47.5°	2591.2	2632.1	2732.3	2757.3	2762.5
50°	2429.0	2480.4	2580.6	2610.9	2614.9
52.5°	2269.4	2324.7	2427.6	2448.7	2452.7
55°	2107.2	2157.3	2269.4	2285.3	2278.7
57.5°	1937.1	1997.8	2100.7	2108.5	2115.1
60°	1770.9	1823.7	1923.9	1934.4	1920.0
62.5°	1590.3	1644.3	1747.2	1749.8	1737.9
65°	1418.8	1459.7	1563.9	1561.3	1553.3
67.5°	1239.5	1289.6	1366.1	1368.7	1362.2
70°	1072.0	1106.3	1180.2	1181.5	1165.7
72.5°	891.4	928.3	987.6	979.8	975.8
75°	716.0	745.1	791.2	796.5	783.3
77.5°	555.2	576.2	610.5	606.6	592.1
80°	390.3	407.4	432.6	427.3	411.4
82.5°	249.2	259.8	275.6	269.0	262.4
85°	135.9	137.1	138.4	137.1	133.2
87.5°	50.1	51.4	51.4	50.1	46.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)