

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: P489921

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-5LO-50-120-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: P489921
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-LD4-5LO-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

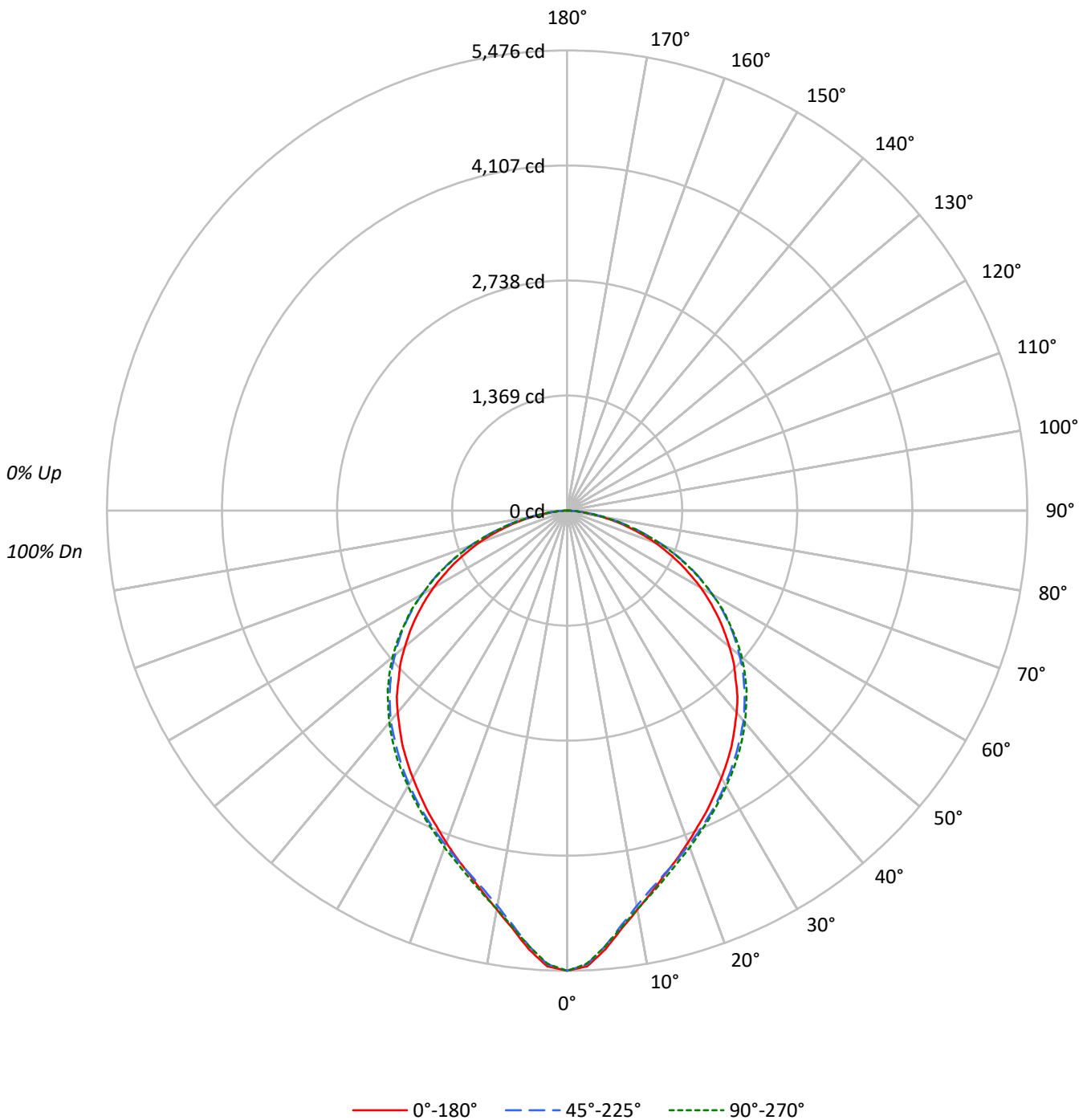
Lumens per Lamp: N/A
Luminaire Lumens: 12719.8 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 117
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°	7368	7368	7368
5°	7075	7025	7025
10°	6584	6524	6575
15°	6248	6237	6297
20°	6019	6062	6109
25°	5846	5942	5976
30°	5706	5846	5882
35°	5608	5772	5830
40°	5508	5732	5780
45°	5395	5676	5744
50°	5276	5605	5680
55°	5129	5524	5547
60°	4945	5372	5361
65°	4687	5167	5131
70°	4376	4818	4759
75°	3863	4268	4225
80°	3138	3477	3308
85°	2177	2217	2133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	483.9	3.8
10°-20°	1267.5	10.0
20°-30°	1843.1	14.5
30°-40°	2193.3	17.2
40°-50°	2277.4	17.9
50°-60°	2063.2	16.2
60°-70°	1556.9	12.2
70°-80°	848.3	6.7
80°-90°	186.4	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°	3594.5	28.3
0°-40°	5787.7	45.5
0°-60°	10128.2	79.6
0°-90°	12719.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12719.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5476	5476	5476	5476	5476	
5°	5238	5226	5201	5198	5201	486
15°	4485	4474	4477	4507	4521	1266
25°	3938	3971	4002	4035	4026	1815
35°	3414	3455	3514	3567	3550	2134
45°	2835	2886	2983	3016	3018	2192
55°	2186	2238	2355	2371	2364	1952
65°	1472	1515	1623	1620	1612	1455
75°	743	773	821	826	813	791
85°	141	142	144	142	138	178
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5476.1	5476.1	5476.1	5476.1	5476.1
2.5°	5428.2	5422.7	5404.9	5398.0	5396.6
5°	5238.0	5225.7	5201.0	5198.3	5201.0
7.5°	5010.8	4997.1	4972.6	4982.1	4994.4
10°	4819.3	4785.1	4775.4	4789.1	4812.4
12.5°	4648.2	4620.8	4612.6	4648.2	4664.7
15°	4485.3	4474.4	4477.2	4507.3	4520.9
17.5°	4344.5	4337.6	4355.4	4378.7	4385.5
20°	4203.5	4217.2	4233.6	4258.3	4266.4
22.5°	4065.3	4091.3	4118.7	4151.5	4140.6
25°	3938.1	3970.9	4002.4	4035.2	4025.7
27.5°	3802.6	3840.8	3884.7	3920.3	3906.6
30°	3672.5	3720.5	3762.9	3806.7	3786.2
32.5°	3544.0	3589.1	3639.7	3693.1	3669.9
35°	3414.0	3455.0	3513.9	3567.3	3549.5
37.5°	3270.3	3320.9	3387.9	3434.5	3422.2
40°	3136.2	3182.8	3263.5	3293.6	3290.8
42.5°	3000.7	3039.1	3123.9	3158.1	3152.6
45°	2835.2	2885.8	2982.9	3015.8	3018.5
47.5°	2688.8	2731.2	2835.2	2861.2	2866.6
50°	2520.5	2573.9	2677.8	2709.3	2713.4
52.5°	2354.8	2412.3	2519.1	2540.9	2545.1
55°	2186.5	2238.5	2354.8	2371.4	2364.5
57.5°	2010.1	2073.0	2179.8	2187.9	2194.8
60°	1837.6	1892.4	1996.4	2007.3	1992.3
62.5°	1650.2	1706.3	1813.1	1815.7	1803.4
65°	1472.3	1514.7	1622.8	1620.1	1611.8
67.5°	1286.2	1338.2	1417.6	1420.3	1413.5
70°	1112.4	1148.0	1224.6	1226.0	1209.6
72.5°	925.0	963.3	1024.8	1016.7	1012.6
75°	743.0	773.1	821.0	826.5	812.8
77.5°	576.1	598.0	633.6	629.5	614.4
80°	405.0	422.8	448.8	443.4	426.9
82.5°	258.6	269.6	286.0	279.1	272.3
85°	141.0	142.2	143.6	142.2	138.2
87.5°	52.0	53.4	53.4	52.0	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)