

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: P489867

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-30-120-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: P489867
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-LD4-4HI-30-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

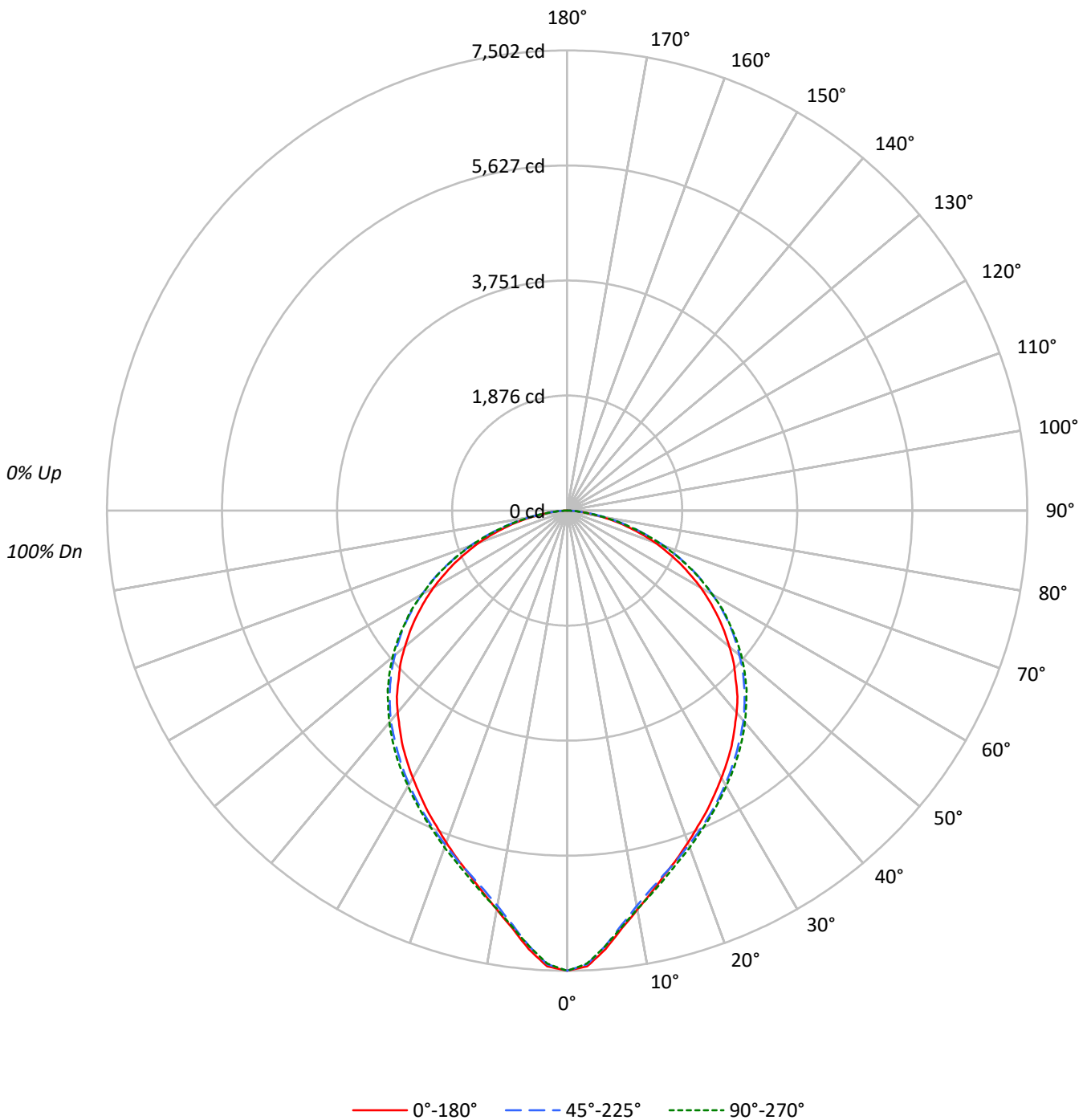
Lumens per Lamp: N/A
Luminaire Lumens: 17425.9 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 172.8
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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10094	10094	10094
5°	9692	9624	9624
10°	9020	8938	9008
15°	8559	8544	8627
20°	8246	8305	8369
25°	8009	8140	8188
30°	7817	8009	8059
35°	7682	7907	7987
40°	7547	7853	7919
45°	7391	7776	7869
50°	7228	7679	7781
55°	7027	7568	7599
60°	6775	7360	7345
65°	6422	7078	7030
70°	5995	6600	6519
75°	5292	5847	5789
80°	4299	4764	4531
85°	2981	3038	2922



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.9	3.8
10°-20°	1736.4	10.0
20°-30°	2525.0	14.5
30°-40°	3004.7	17.2
40°-50°	3120.0	17.9
50°-60°	2826.5	16.2
60°-70°	2132.9	12.2
70°-80°	1162.1	6.7
80°-90°	255.4	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°	4924.3	28.3
0°-40°	7929.1	45.5
0°-60°	13875.5	79.6
0°-90°	17425.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17425.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7502	7502	7502	7502	7502	
5°	7176	7159	7125	7122	7125	666
15°	6145	6130	6134	6175	6194	1734
25°	5395	5440	5483	5528	5515	2486
35°	4677	4733	4814	4887	4863	2924
45°	3884	3954	4087	4132	4135	3002
55°	2996	3067	3226	3249	3239	2675
65°	2017	2075	2223	2220	2208	1994
75°	1018	1059	1125	1132	1114	1084
85°	193	195	197	195	189	244
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7502.1	7502.1	7502.1	7502.1	7502.1
2.5°	7436.5	7429.0	7404.6	7395.2	7393.3
5°	7175.9	7159.1	7125.3	7121.6	7125.3
7.5°	6864.7	6845.9	6812.3	6825.4	6842.3
10°	6602.3	6555.5	6542.2	6561.0	6592.9
12.5°	6367.9	6330.5	6319.1	6367.9	6390.5
15°	6144.8	6129.8	6133.7	6174.9	6193.6
17.5°	5951.9	5942.5	5966.8	5998.7	6008.1
20°	5758.7	5777.5	5800.0	5833.8	5844.9
22.5°	5569.4	5605.0	5642.6	5687.5	5672.5
25°	5395.1	5440.0	5483.2	5528.2	5515.1
27.5°	5209.5	5261.9	5322.0	5370.7	5351.9
30°	5031.3	5097.0	5155.1	5215.0	5187.0
32.5°	4855.2	4917.1	4986.4	5059.5	5027.7
35°	4677.1	4733.3	4814.0	4887.1	4862.7
37.5°	4480.3	4549.6	4641.4	4705.1	4688.4
40°	4296.6	4360.3	4470.9	4512.2	4508.4
42.5°	4110.9	4163.5	4279.7	4326.5	4319.0
45°	3884.2	3953.5	4086.6	4131.7	4135.3
47.5°	3683.6	3741.7	3884.2	3919.7	3927.2
50°	3453.0	3526.1	3668.6	3711.6	3717.4
52.5°	3226.1	3304.8	3451.1	3481.1	3486.8
55°	2995.5	3066.8	3226.1	3248.7	3239.3
57.5°	2753.8	2840.0	2986.3	2997.4	3006.8
60°	2517.5	2592.5	2735.0	2750.0	2729.4
62.5°	2260.8	2337.6	2483.9	2487.5	2470.6
65°	2017.0	2075.2	2223.2	2219.5	2208.2
67.5°	1762.0	1833.3	1942.1	1945.8	1936.5
70°	1524.0	1572.7	1677.7	1679.7	1657.2
72.5°	1267.3	1319.7	1404.0	1392.8	1387.3
75°	1017.9	1059.2	1124.8	1132.3	1113.5
77.5°	789.2	819.2	868.0	862.4	841.7
80°	554.8	579.2	614.9	607.4	584.8
82.5°	354.2	369.4	391.8	382.4	373.0
85°	193.1	194.9	196.8	194.9	189.3
87.5°	71.2	73.1	73.1	71.2	65.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)