

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: P489873

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4HI-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: P489873
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-50-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

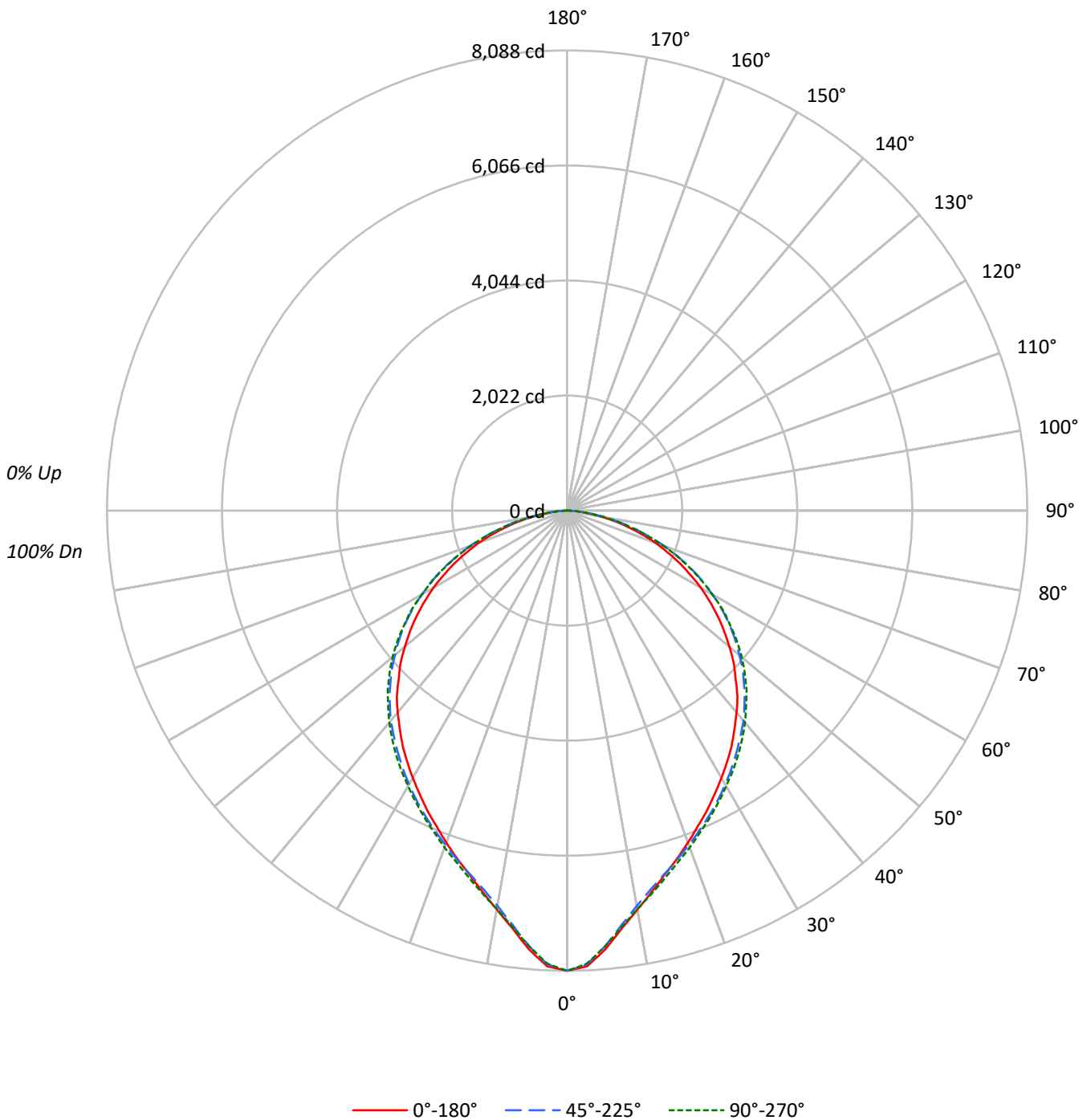
Lumens per Lamp: N/A
Luminaire Lumens: 18786.2 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	10882	10882	10882
5°	10449	10375	10375
10°	9725	9636	9711
15°	9228	9211	9301
20°	8889	8953	9022
25°	8635	8776	8827
30°	8427	8634	8688
35°	8282	8524	8611
40°	8136	8466	8537
45°	7968	8383	8483
50°	7792	8279	8389
55°	7575	8158	8192
60°	7303	7934	7918
65°	6923	7630	7579
70°	6463	7115	7028
75°	5705	6304	6240
80°	4635	5136	4885
85°	3214	3276	3151



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	714.7	3.8
10°-20°	1871.9	10.0
20°-30°	2722.1	14.5
30°-40°	3239.3	17.2
40°-50°	3363.5	17.9
50°-60°	3047.2	16.2
60°-70°	2299.4	12.2
70°-80°	1252.8	6.7
80°-90°	275.3	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°	5308.8	28.3
0°-40°	8548.0	45.5
0°-60°	14958.7	79.6
0°-90°	18786.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	18786.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8088	8088	8088	8088	8088	
5°	7736	7718	7682	7678	7682	718
15°	6624	6608	6612	6657	6677	1870
25°	5816	5865	5911	5960	5946	2680
35°	5042	5103	5190	5269	5242	3152
45°	4187	4262	4406	4454	4458	3237
55°	3229	3306	3478	3502	3492	2883
65°	2174	2237	2397	2393	2381	2150
75°	1097	1142	1213	1221	1200	1169
85°	208	210	212	210	204	263
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8087.8	8087.8	8087.8	8087.8	8087.8
2.5°	8017.0	8008.9	7982.6	7972.5	7970.4
5°	7736.1	7717.9	7681.5	7677.5	7681.5
7.5°	7400.6	7380.4	7344.1	7358.2	7376.4
10°	7117.7	7067.2	7052.9	7073.2	7107.6
12.5°	6865.0	6824.6	6812.4	6865.0	6889.4
15°	6624.5	6608.4	6612.5	6657.0	6677.1
17.5°	6416.5	6406.3	6432.6	6467.0	6477.1
20°	6208.3	6228.5	6252.8	6289.2	6301.2
22.5°	6004.2	6042.5	6083.0	6131.5	6115.3
25°	5816.3	5864.7	5911.3	5959.7	5945.6
27.5°	5616.1	5672.6	5737.4	5790.0	5769.7
30°	5424.1	5494.9	5557.6	5622.1	5591.9
32.5°	5234.3	5300.9	5375.6	5454.5	5420.1
35°	5042.2	5102.8	5189.8	5268.6	5242.3
37.5°	4830.0	4904.8	5003.7	5072.4	5054.4
40°	4632.0	4700.7	4819.9	4864.4	4860.3
42.5°	4431.9	4488.5	4613.8	4664.3	4656.2
45°	4187.4	4262.1	4405.6	4454.2	4458.1
47.5°	3971.1	4033.8	4187.4	4225.7	4233.8
50°	3722.6	3801.4	3955.0	4001.4	4007.5
52.5°	3477.9	3562.8	3720.5	3752.8	3759.0
55°	3229.4	3306.2	3477.9	3502.3	3492.2
57.5°	2968.8	3061.7	3219.4	3231.4	3241.6
60°	2714.0	2794.9	2948.5	2964.6	2942.5
62.5°	2437.3	2520.1	2677.8	2681.7	2663.5
65°	2174.4	2237.1	2396.7	2392.8	2380.6
67.5°	1899.6	1976.4	2093.7	2097.7	2087.7
70°	1642.9	1695.5	1808.7	1810.8	1786.6
72.5°	1366.2	1422.7	1513.6	1501.6	1495.6
75°	1097.4	1141.8	1212.6	1220.7	1200.4
77.5°	850.8	883.1	935.7	929.7	907.4
80°	598.2	624.4	662.9	654.8	630.4
82.5°	381.9	398.2	422.4	412.3	402.1
85°	208.2	210.1	212.2	210.1	204.1
87.5°	76.8	78.8	78.8	76.8	70.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)