

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: P489892

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-4STD-35-120-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: P489892
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-LD4-4STD-35-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

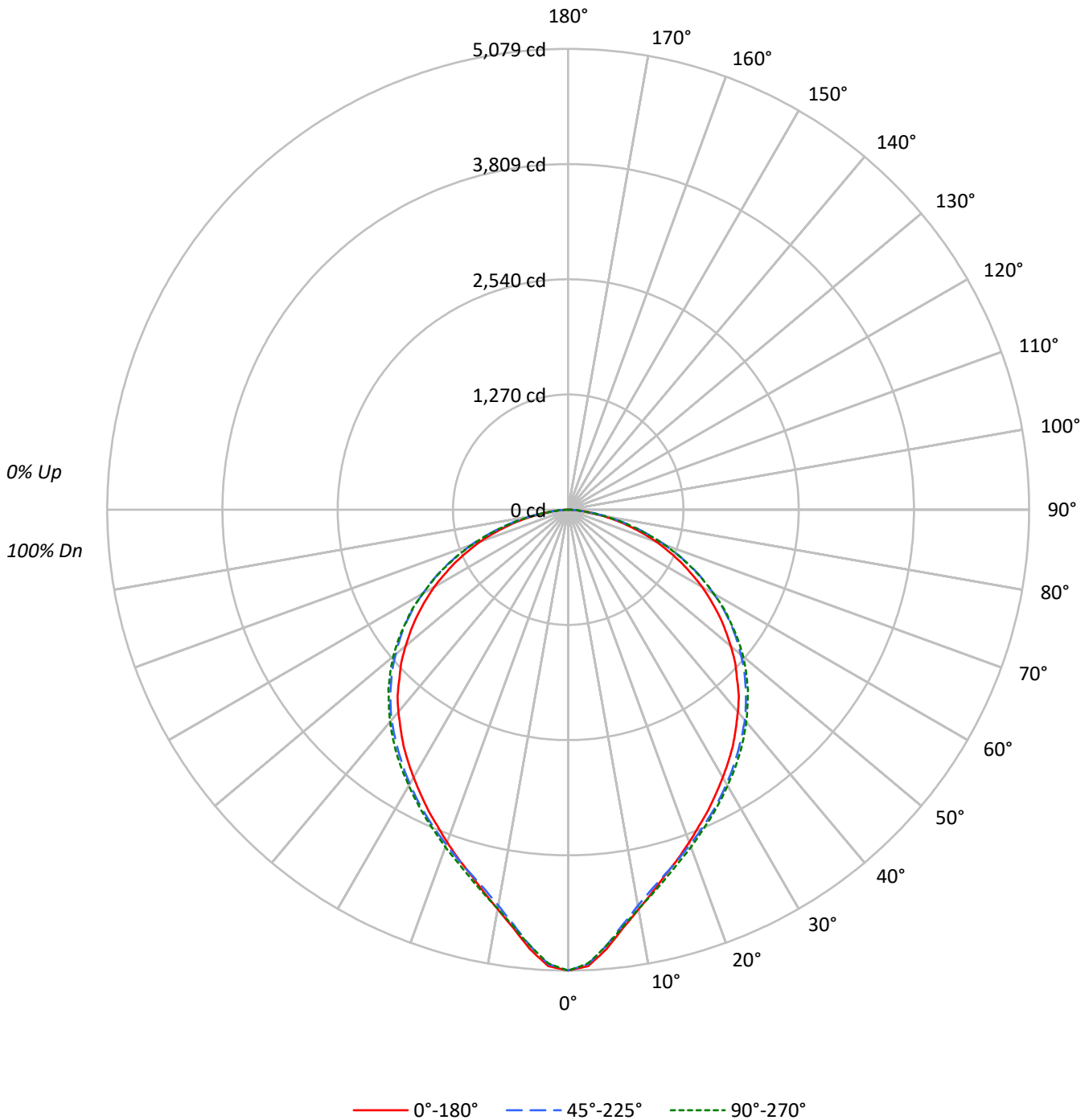
Lumens per Lamp: N/A
Luminaire Lumens: 11796.9 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 133.2
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°	6833	6833	6833
5°	6561	6515	6515
10°	6107	6051	6098
15°	5795	5784	5841
20°	5582	5622	5666
25°	5422	5511	5543
30°	5292	5422	5456
35°	5201	5353	5407
40°	5109	5316	5361
45°	5003	5264	5327
50°	4893	5199	5268
55°	4757	5123	5144
60°	4586	4982	4972
65°	4347	4791	4759
70°	4059	4468	4413
75°	3582	3959	3919
80°	2910	3226	3068
85°	2018	2056	1979



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.8	3.8
10°-20°	1175.5	10.0
20°-30°	1709.4	14.5
30°-40°	2034.1	17.2
40°-50°	2112.1	17.9
50°-60°	1913.5	16.2
60°-70°	1443.9	12.2
70°-80°	786.7	6.7
80°-90°	172.9	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°	3333.7	28.3
0°-40°	5367.8	45.5
0°-60°	9393.4	79.6
0°-90°	11796.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11796.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5079	5079	5079	5079	5079	
5°	4858	4846	4824	4821	4824	451
15°	4160	4150	4152	4180	4193	1174
25°	3652	3683	3712	3742	3734	1683
35°	3166	3204	3259	3308	3292	1980
45°	2630	2676	2766	2797	2800	2033
55°	2028	2076	2184	2199	2193	1811
65°	1366	1405	1505	1503	1495	1350
75°	689	717	762	766	754	734
85°	131	132	133	132	128	165
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5078.8	5078.8	5078.8	5078.8	5078.8
2.5°	5034.3	5029.2	5012.7	5006.4	5005.1
5°	4857.9	4846.5	4823.6	4821.2	4823.6
7.5°	4647.3	4634.5	4611.8	4620.6	4632.1
10°	4469.6	4437.9	4428.9	4441.7	4463.2
12.5°	4310.9	4285.6	4277.9	4310.9	4326.2
15°	4159.9	4149.8	4152.3	4180.3	4192.9
17.5°	4029.3	4022.9	4039.4	4061.0	4067.3
20°	3898.5	3911.2	3926.5	3949.3	3956.9
22.5°	3770.4	3794.4	3819.9	3850.3	3840.2
25°	3652.4	3682.8	3712.0	3742.4	3733.6
27.5°	3526.7	3562.2	3602.8	3635.8	3623.1
30°	3406.1	3450.5	3489.9	3530.5	3511.5
32.5°	3286.9	3328.7	3375.7	3425.2	3403.6
35°	3166.3	3204.4	3258.9	3308.5	3292.0
37.5°	3033.1	3080.0	3142.1	3185.3	3173.9
40°	2908.7	2951.8	3026.7	3054.6	3052.0
42.5°	2783.0	2818.6	2897.2	2929.0	2923.9
45°	2629.5	2676.4	2766.5	2797.0	2799.5
47.5°	2493.7	2533.1	2629.5	2653.6	2658.6
50°	2337.6	2387.1	2483.6	2512.7	2516.6
52.5°	2184.0	2237.3	2336.3	2356.6	2360.5
55°	2027.9	2076.1	2184.0	2199.3	2192.9
57.5°	1864.3	1922.6	2021.6	2029.2	2035.6
60°	1704.3	1755.1	1851.5	1861.7	1847.8
62.5°	1530.5	1582.5	1681.5	1684.0	1672.6
65°	1365.5	1404.8	1505.0	1502.6	1494.9
67.5°	1192.9	1241.1	1314.8	1317.2	1311.0
70°	1031.7	1064.7	1135.8	1137.1	1121.9
72.5°	857.9	893.4	950.5	942.9	939.1
75°	689.1	717.0	761.5	766.5	753.8
77.5°	534.3	554.6	587.6	583.8	569.8
80°	375.6	392.1	416.3	411.2	395.9
82.5°	239.8	250.0	265.3	258.9	252.5
85°	130.7	131.9	133.2	131.9	128.2
87.5°	48.2	49.5	49.5	48.2	44.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)