

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: P489312

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3STD-27-120-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: P489312
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-24-2-INS-P12125-LD4-3STD-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

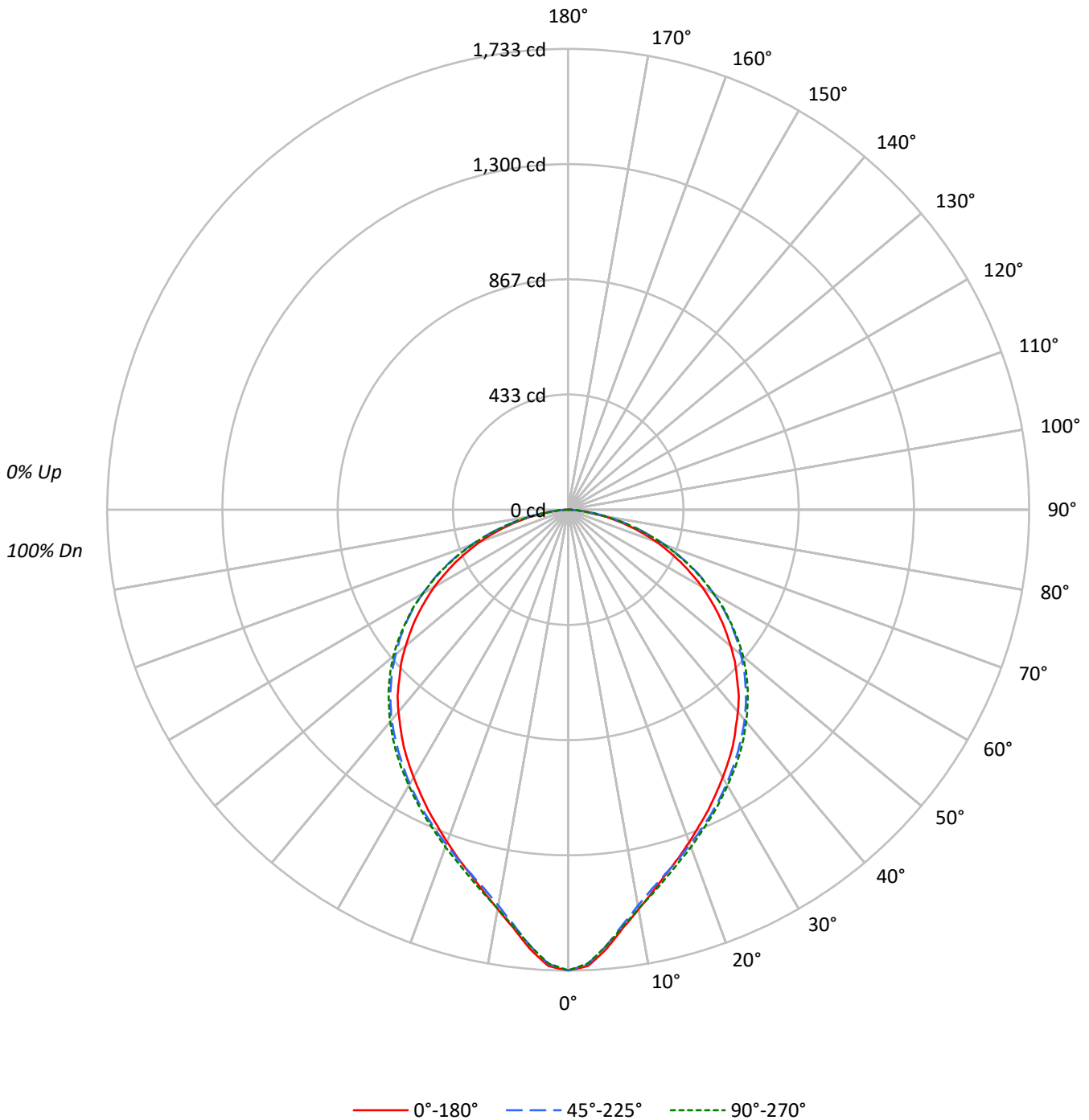
Lumens per Lamp: N/A
Luminaire Lumens: 4024.4 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	4662	4662	4662
5°	4477	4445	4445
10°	4167	4129	4160
15°	3953	3946	3985
20°	3808	3836	3866
25°	3700	3760	3782
30°	3611	3699	3722
35°	3548	3652	3689
40°	3486	3627	3658
45°	3414	3592	3634
50°	3339	3547	3594
55°	3246	3495	3510
60°	3129	3399	3392
65°	2966	3269	3247
70°	2769	3049	3011
75°	2444	2701	2674
80°	1985	2201	2094
85°	1377	1402	1349



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.1	3.8
10°-20°	401.0	10.0
20°-30°	583.1	14.5
30°-40°	693.9	17.2
40°-50°	720.5	17.9
50°-60°	652.8	16.2
60°-70°	492.6	12.2
70°-80°	268.4	6.7
80°-90°	59.0	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°	1137.2	28.3
0°-40°	1831.2	45.5
0°-60°	3204.5	79.6
0°-90°	4024.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1733	1733	1733	1733	1733	
5°	1657	1653	1646	1645	1646	154
15°	1419	1416	1416	1426	1430	401
25°	1246	1256	1266	1277	1274	574
35°	1080	1093	1112	1129	1123	675
45°	897	913	944	954	955	693
55°	692	708	745	750	748	618
65°	466	479	513	513	510	460
75°	235	245	260	262	257	250
85°	45	45	45	45	44	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1732.6	1732.6	1732.6	1732.6	1732.6
2.5°	1717.4	1715.7	1710.0	1707.9	1707.4
5°	1657.2	1653.3	1645.5	1644.7	1645.5
7.5°	1585.4	1581.0	1573.3	1576.3	1580.2
10°	1524.8	1513.9	1510.9	1515.2	1522.6
12.5°	1470.6	1462.0	1459.4	1470.6	1475.9
15°	1419.1	1415.6	1416.5	1426.1	1430.4
17.5°	1374.5	1372.4	1378.0	1385.4	1387.5
20°	1329.9	1334.3	1339.5	1347.3	1349.9
22.5°	1286.2	1294.4	1303.1	1313.5	1310.0
25°	1246.0	1256.3	1266.3	1276.7	1273.7
27.5°	1203.1	1215.2	1229.1	1240.3	1236.0
30°	1162.0	1177.1	1190.5	1204.4	1197.9
32.5°	1121.3	1135.6	1151.6	1168.5	1161.1
35°	1080.1	1093.1	1111.8	1128.6	1123.0
37.5°	1034.7	1050.7	1071.9	1086.6	1082.8
40°	992.3	1007.0	1032.5	1042.1	1041.2
42.5°	949.4	961.5	988.4	999.2	997.5
45°	897.0	913.0	943.8	954.2	955.0
47.5°	850.7	864.1	897.0	905.2	907.0
50°	797.5	814.3	847.2	857.2	858.5
52.5°	745.0	763.2	797.0	803.9	805.3
55°	691.8	708.2	745.0	750.3	748.1
57.5°	636.0	655.9	689.7	692.2	694.4
60°	581.4	598.7	631.6	635.1	630.3
62.5°	522.1	539.9	573.6	574.5	570.6
65°	465.8	479.2	513.4	512.6	510.0
67.5°	406.9	423.4	448.5	449.4	447.2
70°	352.0	363.2	387.5	387.9	382.7
72.5°	292.7	304.8	324.2	321.7	320.4
75°	235.1	244.6	259.8	261.5	257.2
77.5°	182.3	189.2	200.4	199.2	194.4
80°	128.1	133.8	142.0	140.3	135.1
82.5°	81.8	85.3	90.5	88.3	86.1
85°	44.6	45.0	45.4	45.0	43.7
87.5°	16.4	16.9	16.9	16.4	15.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)