

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: P489309

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-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: P489309
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-LD4-3LO-50-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

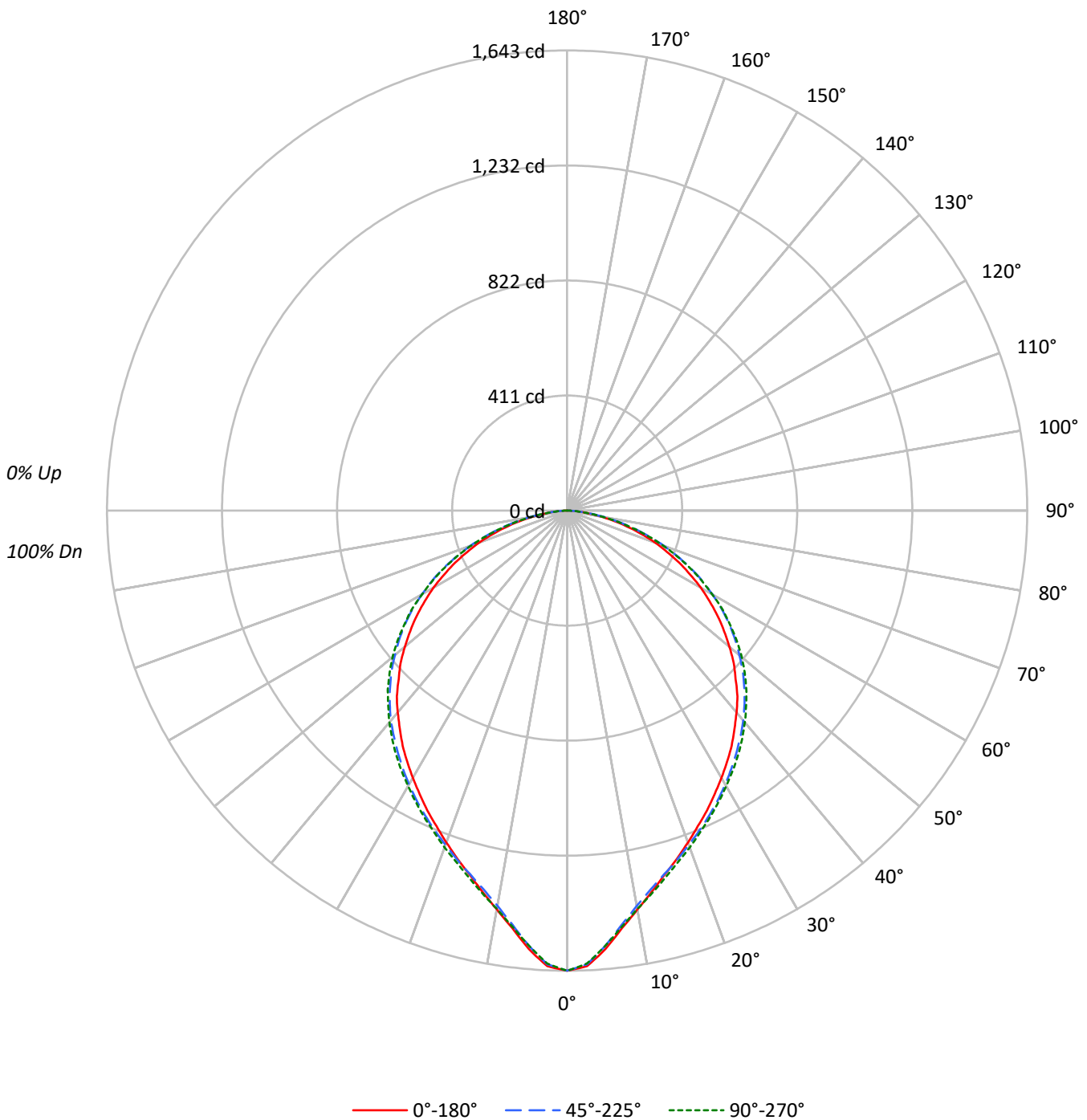
Lumens per Lamp: N/A
Luminaire Lumens: 3815.8 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	4421	4421	4421
5°	4244	4215	4215
10°	3950	3915	3945
15°	3749	3742	3778
20°	3611	3637	3665
25°	3508	3565	3586
30°	3423	3507	3529
35°	3365	3463	3498
40°	3305	3439	3468
45°	3237	3405	3446
50°	3165	3363	3408
55°	3077	3314	3328
60°	2967	3223	3217
65°	2812	3100	3079
70°	2626	2891	2855
75°	2318	2561	2535
80°	1883	2086	1985
85°	1306	1331	1281



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.2	3.8
10°-20°	380.2	10.0
20°-30°	552.9	14.5
30°-40°	657.9	17.2
40°-50°	683.2	17.9
50°-60°	618.9	16.2
60°-70°	467.0	12.2
70°-80°	254.5	6.7
80°-90°	55.9	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°	1078.3	28.3
0°-40°	1736.2	45.5
0°-60°	3038.3	79.6
0°-90°	3815.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3815.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1643	1643	1643	1643	1643	
5°	1571	1568	1560	1559	1560	146
15°	1346	1342	1343	1352	1356	380
25°	1181	1191	1201	1210	1208	544
35°	1024	1036	1054	1070	1065	640
45°	850	866	895	905	906	657
55°	656	672	706	711	709	586
65°	442	454	487	486	484	437
75°	223	232	246	248	244	237
85°	42	43	43	43	42	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1642.8	1642.8	1642.8	1642.8	1642.8
2.5°	1628.4	1626.7	1621.4	1619.3	1618.9
5°	1571.3	1567.6	1560.2	1559.4	1560.2
7.5°	1503.2	1499.1	1491.7	1494.6	1498.3
10°	1445.7	1435.5	1432.6	1436.7	1443.7
12.5°	1394.4	1386.2	1383.7	1394.4	1399.4
15°	1345.6	1342.3	1343.1	1352.1	1356.2
17.5°	1303.3	1301.2	1306.6	1313.6	1315.6
20°	1261.0	1265.1	1270.0	1277.4	1279.9
22.5°	1219.6	1227.3	1235.6	1245.4	1242.1
25°	1181.4	1191.2	1200.7	1210.5	1207.7
27.5°	1140.7	1152.2	1165.4	1176.0	1171.9
30°	1101.7	1116.1	1128.8	1142.0	1135.8
32.5°	1063.2	1076.7	1091.9	1107.9	1100.9
35°	1024.2	1036.5	1054.1	1070.1	1064.8
37.5°	981.1	996.2	1016.3	1030.3	1026.6
40°	940.8	954.8	979.0	988.0	987.2
42.5°	900.2	911.7	937.1	947.4	945.8
45°	850.5	865.7	894.8	904.7	905.5
47.5°	806.6	819.3	850.5	858.3	860.0
50°	756.1	772.1	803.3	812.7	814.0
52.5°	706.4	723.7	755.7	762.3	763.5
55°	655.9	671.5	706.4	711.4	709.3
57.5°	603.0	621.9	653.9	656.4	658.4
60°	551.3	567.7	598.9	602.2	597.7
62.5°	495.1	511.9	543.9	544.7	541.0
65°	441.7	454.4	486.8	486.0	483.5
67.5°	385.8	401.4	425.3	426.1	424.0
70°	333.7	344.4	367.4	367.8	362.9
72.5°	277.5	289.0	307.4	305.0	303.8
75°	222.9	231.9	246.3	247.9	243.8
77.5°	172.8	179.4	190.1	188.8	184.3
80°	121.5	126.8	134.6	133.0	128.1
82.5°	77.6	80.9	85.8	83.7	81.7
85°	42.3	42.7	43.1	42.7	41.5
87.5°	15.6	16.0	16.0	15.6	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)