

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: P488518

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2STD-20-120-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: P488518
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-12-2-INS-P12125-LD4-2STD-20-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

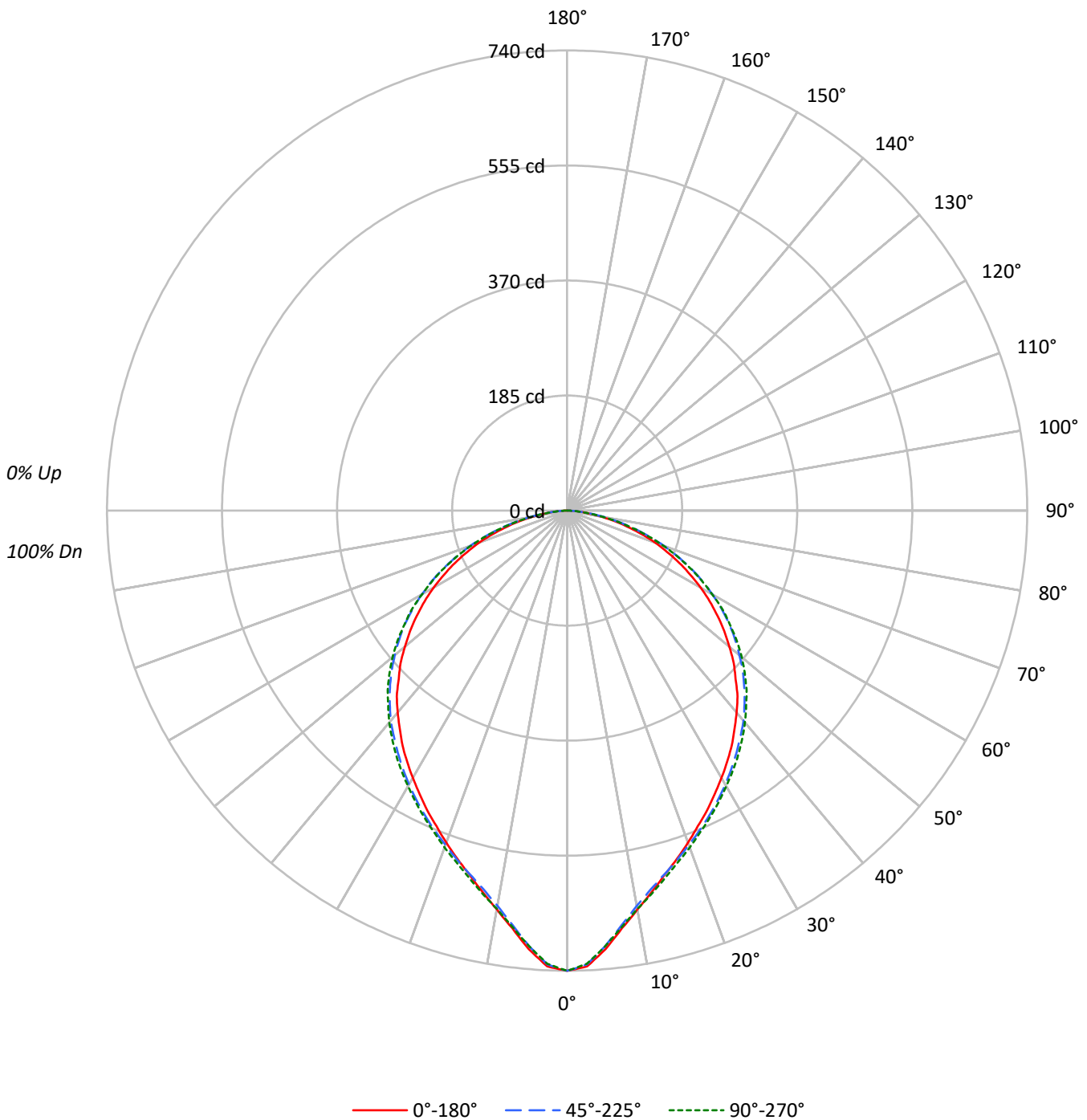
Lumens per Lamp: N/A
Luminaire Lumens: 1719.1 lumens
Efficiency: N/A
Efficacy: 51.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3983	3983	3983
5°	3824	3797	3797
10°	3559	3527	3554
15°	3378	3372	3404
20°	3254	3277	3302
25°	3160	3212	3231
30°	3084	3161	3180
35°	3031	3120	3152
40°	2978	3099	3125
45°	2917	3068	3105
50°	2852	3030	3070
55°	2773	2987	2999
60°	2674	2904	2899
65°	2534	2793	2774
70°	2365	2604	2573
75°	2088	2308	2283
80°	1695	1881	1788
85°	1179	1198	1155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.4	3.8
10°-20°	171.3	10.0
20°-30°	249.1	14.5
30°-40°	296.4	17.2
40°-50°	307.8	17.9
50°-60°	278.8	16.2
60°-70°	210.4	12.2
70°-80°	114.6	6.7
80°-90°	25.2	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°	485.8	28.3
0°-40°	782.2	45.5
0°-60°	1368.9	79.6
0°-90°	1719.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1719.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	740	740	740	740	740	
5°	708	706	703	703	703	66
15°	606	605	605	609	611	171
25°	532	537	541	545	544	245
35°	461	467	475	482	480	288
45°	383	390	403	408	408	296
55°	296	302	318	320	320	264
65°	199	205	219	219	218	197
75°	100	104	111	112	110	107
85°	19	19	19	19	19	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.1	740.1	740.1	740.1	740.1
2.5°	733.6	732.9	730.5	729.6	729.4
5°	707.9	706.3	702.9	702.6	702.9
7.5°	677.2	675.4	672.0	673.3	675.0
10°	651.3	646.7	645.4	647.3	650.4
12.5°	628.2	624.5	623.4	628.2	630.4
15°	606.2	604.7	605.1	609.2	611.0
17.5°	587.2	586.2	588.6	591.8	592.7
20°	568.1	570.0	572.2	575.5	576.6
22.5°	549.4	552.9	556.7	561.1	559.6
25°	532.2	536.7	540.9	545.4	544.1
27.5°	513.9	519.1	525.0	529.8	528.0
30°	496.3	502.8	508.6	514.5	511.7
32.5°	479.0	485.1	491.9	499.1	496.0
35°	461.4	467.0	474.9	482.1	479.7
37.5°	442.0	448.8	457.9	464.2	462.5
40°	423.9	430.2	441.1	445.1	444.8
42.5°	405.6	410.7	422.2	426.8	426.1
45°	383.2	390.0	403.1	407.6	408.0
47.5°	363.4	369.1	383.2	386.7	387.4
50°	340.6	347.9	361.9	366.2	366.7
52.5°	318.3	326.0	340.5	343.4	344.0
55°	295.5	302.5	318.3	320.5	319.6
57.5°	271.7	280.2	294.6	295.7	296.6
60°	248.4	255.8	269.8	271.3	269.3
62.5°	223.0	230.6	245.0	245.4	243.7
65°	199.0	204.7	219.3	219.0	217.8
67.5°	173.8	180.9	191.6	192.0	191.0
70°	150.3	155.2	165.5	165.7	163.5
72.5°	125.0	130.2	138.5	137.4	136.9
75°	100.4	104.5	111.0	111.7	109.8
77.5°	77.9	80.8	85.6	85.1	83.0
80°	54.7	57.1	60.7	59.9	57.7
82.5°	34.9	36.4	38.7	37.7	36.8
85°	19.1	19.2	19.4	19.2	18.7
87.5°	7.0	7.2	7.2	7.0	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)