

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: P488522

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2STD-30-120-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: P488522
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-30-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

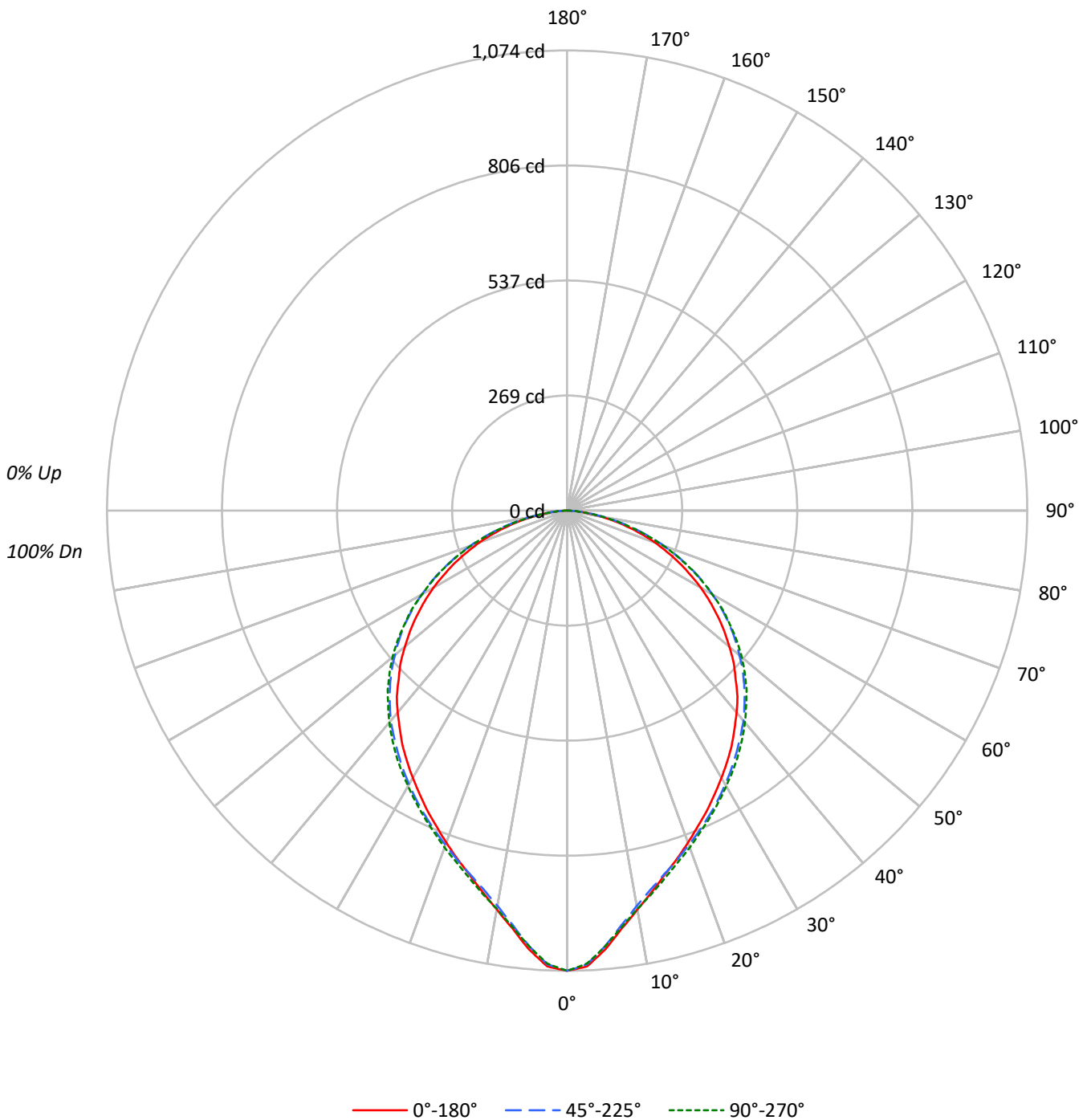
Lumens per Lamp: N/A
Luminaire Lumens: 2494.8 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (A_{in}): 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°	5781	5781	5781
5°	5551	5511	5511
10°	5166	5119	5158
15°	4902	4893	4941
20°	4722	4756	4793
25°	4587	4662	4689
30°	4476	4586	4615
35°	4399	4528	4574
40°	4321	4497	4534
45°	4233	4453	4506
50°	4140	4397	4456
55°	4024	4334	4352
60°	3879	4215	4207
65°	3678	4053	4025
70°	3434	3780	3734
75°	3030	3348	3315
80°	2461	2727	2594
85°	1704	1741	1673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.9	3.8
10°-20°	248.6	10.0
20°-30°	361.5	14.5
30°-40°	430.2	17.2
40°-50°	446.7	17.9
50°-60°	404.7	16.2
60°-70°	305.4	12.2
70°-80°	166.4	6.7
80°-90°	36.6	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°	705.0	28.3
0°-40°	1135.2	45.5
0°-60°	1986.5	79.6
0°-90°	2494.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2494.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1027	1025	1020	1020	1020	95
15°	880	878	878	884	887	248
25°	772	779	785	791	790	356
35°	670	678	689	700	696	419
45°	556	566	585	592	592	430
55°	429	439	462	465	464	383
65°	289	297	318	318	316	285
75°	146	152	161	162	159	155
85°	28	28	28	28	27	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1074.1	1074.1	1074.1	1074.1	1074.1
2.5°	1064.7	1063.6	1060.1	1058.7	1058.5
5°	1027.4	1024.9	1020.1	1019.6	1020.1
7.5°	982.8	980.1	975.3	977.2	979.6
10°	945.2	938.5	936.6	939.3	943.9
12.5°	911.7	906.3	904.7	911.7	914.9
15°	879.7	877.6	878.1	884.0	886.7
17.5°	852.1	850.8	854.2	858.8	860.2
20°	824.5	827.1	830.4	835.2	836.8
22.5°	797.4	802.4	807.8	814.3	812.1
25°	772.4	778.8	785.0	791.4	789.6
27.5°	745.8	753.3	761.9	768.9	766.2
30°	720.3	729.7	738.0	746.6	742.6
32.5°	695.1	704.0	713.9	724.4	719.8
35°	669.6	677.7	689.2	699.7	696.2
37.5°	641.4	651.4	664.5	673.6	671.2
40°	615.1	624.3	640.1	646.0	645.4
42.5°	588.5	596.1	612.7	619.4	618.3
45°	556.1	566.0	585.1	591.5	592.0
47.5°	527.4	535.7	556.1	561.2	562.2
50°	494.4	504.8	525.2	531.4	532.2
52.5°	461.9	473.1	494.1	498.4	499.2
55°	428.9	439.1	461.9	465.1	463.8
57.5°	394.3	406.6	427.5	429.1	430.5
60°	360.4	371.2	391.6	393.7	390.8
62.5°	323.7	334.7	355.6	356.1	353.7
65°	288.8	297.1	318.3	317.8	316.1
67.5°	252.3	262.5	278.0	278.6	277.2
70°	218.2	225.2	240.2	240.5	237.3
72.5°	181.4	188.9	201.0	199.4	198.6
75°	145.7	151.6	161.0	162.1	159.4
77.5°	113.0	117.3	124.3	123.5	120.5
80°	79.4	82.9	88.0	87.0	83.7
82.5°	50.7	52.9	56.1	54.8	53.4
85°	27.6	27.9	28.2	27.9	27.1
87.5°	10.2	10.5	10.5	10.2	9.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)