

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: P488523

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2STD-30-120-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: P488523
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
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

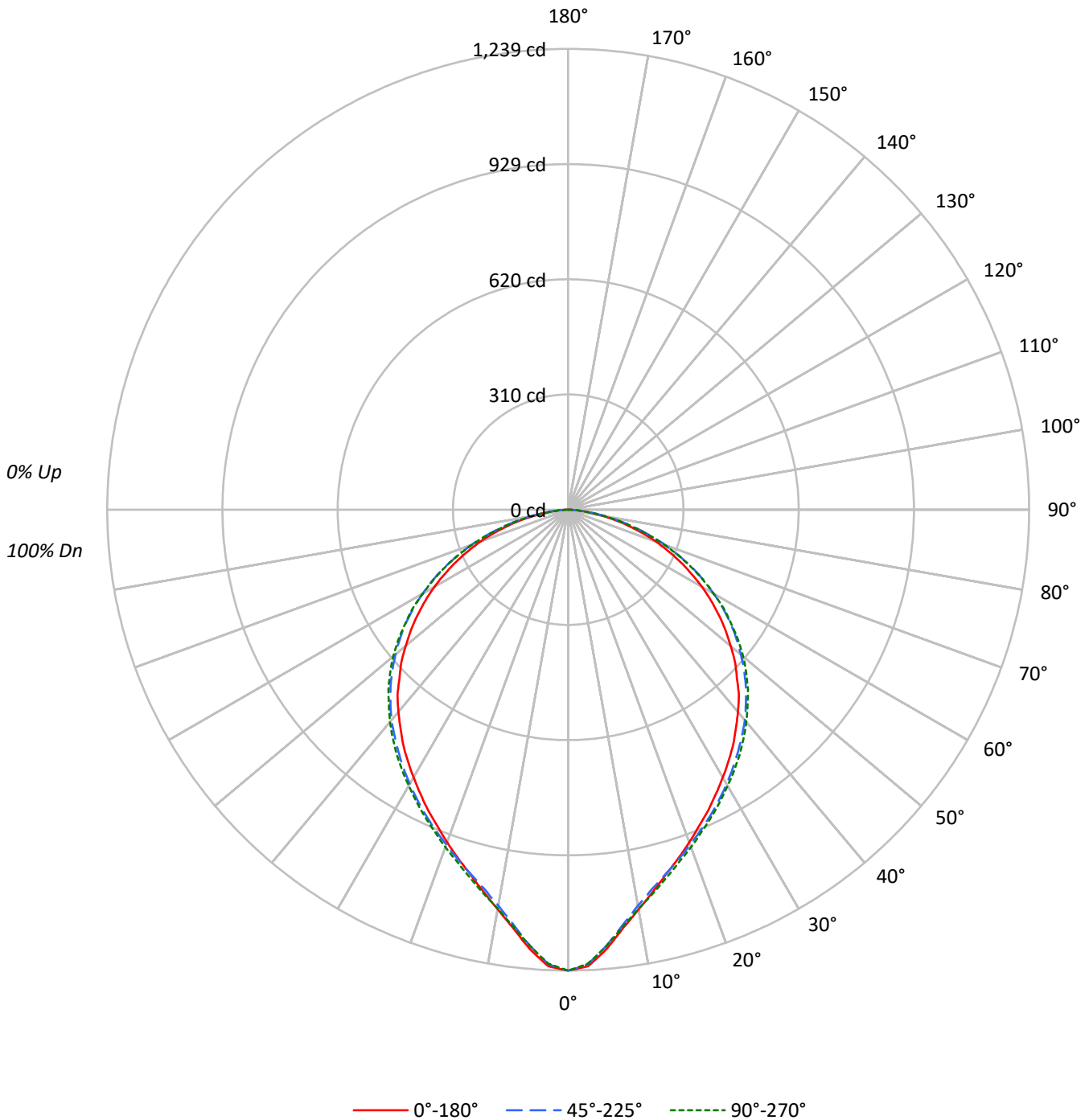
Lumens per Lamp: N/A
Luminaire Lumens: 2878.6 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6670	6670	6670
5°	6404	6359	6359
10°	5960	5906	5952
15°	5656	5645	5701
20°	5448	5487	5530
25°	5292	5379	5410
30°	5165	5292	5325
35°	5076	5225	5278
40°	4987	5189	5232
45°	4883	5138	5199
50°	4776	5074	5142
55°	4643	5000	5021
60°	4477	4863	4853
65°	4243	4676	4646
70°	3961	4360	4308
75°	3496	3864	3824
80°	2842	3149	2994
85°	1970	2007	1933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.8
10°-20°	286.8	10.0
20°-30°	417.1	14.5
30°-40°	496.4	17.2
40°-50°	515.4	17.9
50°-60°	466.9	16.2
60°-70°	352.3	12.2
70°-80°	192.0	6.7
80°-90°	42.2	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°	813.5	28.3
0°-40°	1309.8	45.5
0°-60°	2292.1	79.6
0°-90°	2878.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1239	1239	1239	1239	1239	
5°	1185	1183	1177	1176	1177	110
15°	1015	1013	1013	1020	1023	287
25°	891	899	906	913	911	411
35°	773	782	795	807	803	483
45°	642	653	675	682	683	496
55°	495	507	533	537	535	442
65°	333	343	367	367	365	329
75°	168	175	186	187	184	179
85°	32	32	32	32	31	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1239.3	1239.3	1239.3	1239.3	1239.3
2.5°	1228.4	1227.2	1223.2	1221.6	1221.3
5°	1185.4	1182.6	1177.0	1176.4	1177.0
7.5°	1134.0	1130.9	1125.3	1127.5	1130.3
10°	1090.6	1082.9	1080.7	1083.8	1089.1
12.5°	1051.9	1045.7	1043.9	1051.9	1055.7
15°	1015.1	1012.6	1013.2	1020.0	1023.1
17.5°	983.2	981.6	985.7	990.9	992.5
20°	951.3	954.4	958.1	963.7	965.5
22.5°	920.0	925.9	932.1	939.5	937.0
25°	891.2	898.6	905.8	913.2	911.0
27.5°	860.6	869.2	879.1	887.2	884.1
30°	831.1	842.0	851.6	861.5	856.8
32.5°	802.0	812.3	823.7	835.8	830.5
35°	772.6	781.9	795.2	807.3	803.3
37.5°	740.1	751.6	766.7	777.2	774.5
40°	709.8	720.3	738.6	745.4	744.7
42.5°	679.1	687.8	707.0	714.7	713.5
45°	641.6	653.1	675.1	682.5	683.1
47.5°	608.5	618.1	641.6	647.5	648.7
50°	570.4	582.5	606.0	613.1	614.1
52.5°	532.9	545.9	570.1	575.0	576.0
55°	494.8	506.6	532.9	536.7	535.1
57.5°	454.9	469.1	493.3	495.1	496.7
60°	415.9	428.3	451.8	454.3	450.9
62.5°	373.5	386.1	410.3	410.9	408.1
65°	333.2	342.8	367.2	366.6	364.8
67.5°	291.1	302.8	320.8	321.4	319.9
70°	251.7	259.8	277.1	277.5	273.8
72.5°	209.3	218.0	231.9	230.1	229.2
75°	168.1	175.0	185.8	187.0	183.9
77.5°	130.4	135.3	143.4	142.5	139.0
80°	91.7	95.7	101.6	100.3	96.6
82.5°	58.5	61.0	64.7	63.2	61.6
85°	31.9	32.2	32.5	32.2	31.3
87.5°	11.8	12.1	12.1	11.8	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)