

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: P489361

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-27-120-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: P489361
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-LD4-5HI-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

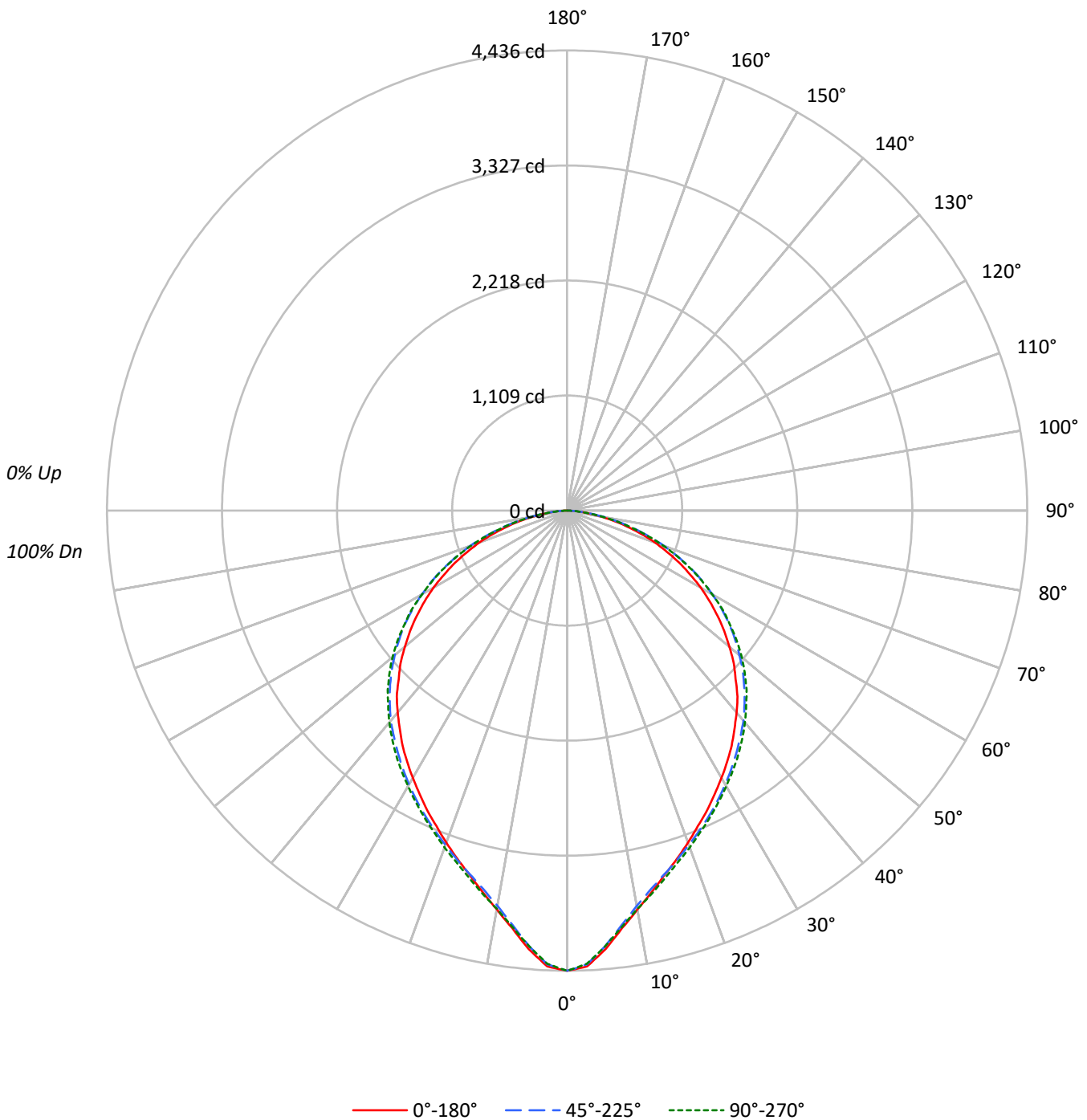
Lumens per Lamp: N/A
Luminaire Lumens: 10304.9 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 108
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°	11938	11938	11938
5°	11463	11382	11382
10°	10668	10571	10653
15°	10123	10105	10204
20°	9752	9822	9898
25°	9473	9628	9684
30°	9245	9473	9531
35°	9086	9352	9447
40°	8925	9288	9365
45°	8741	9197	9306
50°	8549	9082	9203
55°	8311	8951	8987
60°	8012	8705	8687
65°	7595	8371	8315
70°	7091	7806	7711
75°	6258	6916	6847
80°	5084	5635	5359
85°	3526	3594	3455



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	392.0	3.8
10°-20°	1026.8	10.0
20°-30°	1493.2	14.5
30°-40°	1776.9	17.2
40°-50°	1845.0	17.9
50°-60°	1671.5	16.2
60°-70°	1261.3	12.2
70°-80°	687.2	6.7
80°-90°	151.0	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°	2912.0	28.3
0°-40°	4688.9	45.5
0°-60°	8205.4	79.6
0°-90°	10304.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10304.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4436	4436	4436	4436	4436	
5°	4244	4234	4214	4211	4214	394
15°	3634	3625	3627	3652	3663	1026
25°	3190	3217	3242	3269	3261	1470
35°	2766	2799	2847	2890	2876	1729
45°	2297	2338	2417	2443	2445	1775
55°	1771	1814	1908	1921	1916	1582
65°	1193	1227	1315	1312	1306	1179
75°	602	626	665	670	658	641
85°	114	115	116	115	112	144
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4436.4	4436.4	4436.4	4436.4	4436.4
2.5°	4397.6	4393.2	4378.8	4373.2	4372.1
5°	4243.5	4233.5	4213.6	4211.4	4213.6
7.5°	4059.5	4048.4	4028.5	4036.2	4046.2
10°	3904.3	3876.6	3868.8	3879.9	3898.7
12.5°	3765.7	3743.6	3736.9	3765.7	3779.1
15°	3633.8	3624.9	3627.2	3651.6	3662.6
17.5°	3519.7	3514.1	3528.5	3547.4	3552.9
20°	3405.5	3416.6	3429.9	3449.8	3456.4
22.5°	3293.5	3314.5	3336.8	3363.3	3354.5
25°	3190.4	3217.0	3242.5	3269.1	3261.4
27.5°	3080.6	3111.6	3147.2	3176.0	3164.9
30°	2975.3	3014.1	3048.5	3083.9	3067.4
32.5°	2871.2	2907.7	2948.7	2992.0	2973.1
35°	2765.8	2799.1	2846.8	2890.0	2875.6
37.5°	2649.5	2690.4	2744.7	2782.4	2772.5
40°	2540.8	2578.5	2643.9	2668.3	2666.0
42.5°	2431.0	2462.1	2530.8	2558.5	2554.1
45°	2296.9	2337.9	2416.6	2443.3	2445.4
47.5°	2178.3	2212.7	2296.9	2318.0	2322.4
50°	2042.0	2085.2	2169.4	2194.9	2198.3
52.5°	1907.8	1954.3	2040.8	2058.5	2061.9
55°	1771.4	1813.5	1907.8	1921.2	1915.6
57.5°	1628.5	1679.5	1766.0	1772.6	1778.1
60°	1488.7	1533.1	1617.4	1626.2	1614.1
62.5°	1336.9	1382.3	1468.9	1471.0	1461.0
65°	1192.8	1227.2	1314.7	1312.5	1305.8
67.5°	1042.0	1084.1	1148.5	1150.6	1145.2
70°	901.2	930.0	992.1	993.3	980.0
72.5°	749.4	780.4	830.3	823.7	820.4
75°	601.9	626.3	665.2	669.6	658.5
77.5°	466.7	484.4	513.3	510.0	497.7
80°	328.1	342.5	363.6	359.2	345.8
82.5°	209.5	218.4	231.7	226.2	220.6
85°	114.2	115.2	116.4	115.2	111.9
87.5°	42.1	43.3	43.3	42.1	38.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)