

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: P489300

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-3LO-27-120-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: P489300
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-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

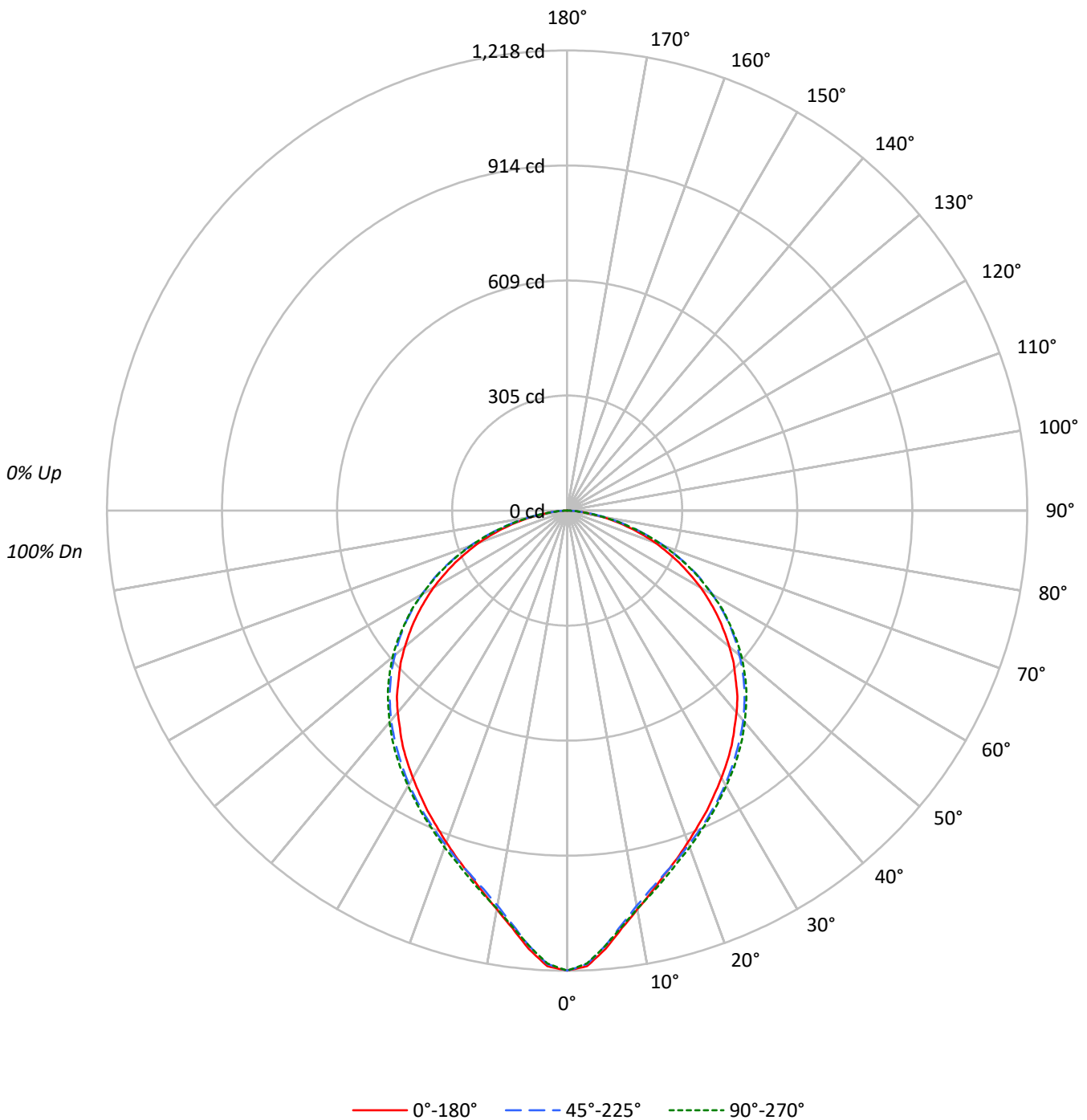
Lumens per Lamp: N/A
Luminaire Lumens: 2827.9 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.23
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	3276	3276	3276
5°	3146	3123	3123
10°	2928	2901	2923
15°	2778	2773	2800
20°	2676	2695	2716
25°	2600	2642	2657
30°	2537	2600	2616
35°	2493	2566	2592
40°	2449	2549	2570
45°	2399	2524	2554
50°	2346	2492	2526
55°	2281	2456	2466
60°	2199	2389	2384
65°	2084	2297	2282
70°	1946	2142	2116
75°	1718	1897	1879
80°	1395	1547	1471
85°	966	985	948



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	3.8
10°-20°	281.8	10.0
20°-30°	409.8	14.5
30°-40°	487.6	17.2
40°-50°	506.3	17.9
50°-60°	458.7	16.2
60°-70°	346.1	12.2
70°-80°	188.6	6.7
80°-90°	41.4	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°	799.1	28.3
0°-40°	1286.7	45.5
0°-60°	2251.7	79.6
0°-90°	2827.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1218	1218	1218	1218	1218	
5°	1164	1162	1156	1156	1156	108
15°	997	995	995	1002	1005	281
25°	876	883	890	897	895	403
35°	759	768	781	793	789	475
45°	630	642	663	670	671	487
55°	486	498	524	527	526	434
65°	327	337	361	360	358	324
75°	165	172	182	184	181	176
85°	31	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°	1217.5	1217.5	1217.5	1217.5	1217.5
2.5°	1206.8	1205.6	1201.6	1200.1	1199.8
5°	1164.5	1161.8	1156.3	1155.7	1156.3
7.5°	1114.0	1111.0	1105.5	1107.6	1110.4
10°	1071.4	1063.8	1061.7	1064.7	1069.9
12.5°	1033.4	1027.3	1025.5	1033.4	1037.1
15°	997.2	994.8	995.4	1002.1	1005.1
17.5°	965.9	964.4	968.3	973.5	975.0
20°	934.5	937.6	941.2	946.7	948.5
22.5°	903.8	909.6	915.7	923.0	920.5
25°	875.5	882.8	889.8	897.1	895.0
27.5°	845.4	853.9	863.7	871.6	868.5
30°	816.5	827.1	836.6	846.3	841.8
32.5°	787.9	797.9	809.2	821.1	815.9
35°	759.0	768.1	781.2	793.1	789.1
37.5°	727.1	738.3	753.2	763.6	760.8
40°	697.3	707.6	725.5	732.2	731.6
42.5°	667.1	675.7	694.5	702.1	700.9
45°	630.3	641.6	663.2	670.5	671.1
47.5°	597.8	607.2	630.3	636.1	637.3
50°	560.4	572.2	595.3	602.3	603.3
52.5°	523.5	536.3	560.0	564.9	565.8
55°	486.1	497.7	523.5	527.2	525.7
57.5°	446.9	460.9	484.6	486.4	488.0
60°	408.5	420.7	443.8	446.3	442.9
62.5°	366.9	379.3	403.1	403.7	400.9
65°	327.3	336.8	360.8	360.2	358.4
67.5°	285.9	297.5	315.2	315.8	314.3
70°	247.3	255.2	272.3	272.6	268.9
72.5°	205.7	214.2	227.8	226.0	225.1
75°	165.2	171.9	182.5	183.8	180.7
77.5°	128.1	132.9	140.9	139.9	136.6
80°	90.0	94.0	99.8	98.6	94.9
82.5°	57.5	59.9	63.6	62.1	60.5
85°	31.3	31.6	31.9	31.6	30.7
87.5°	11.6	11.9	11.9	11.6	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)