

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: P489390

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5STD-40-120-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: P489390
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-LD4-5STD-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

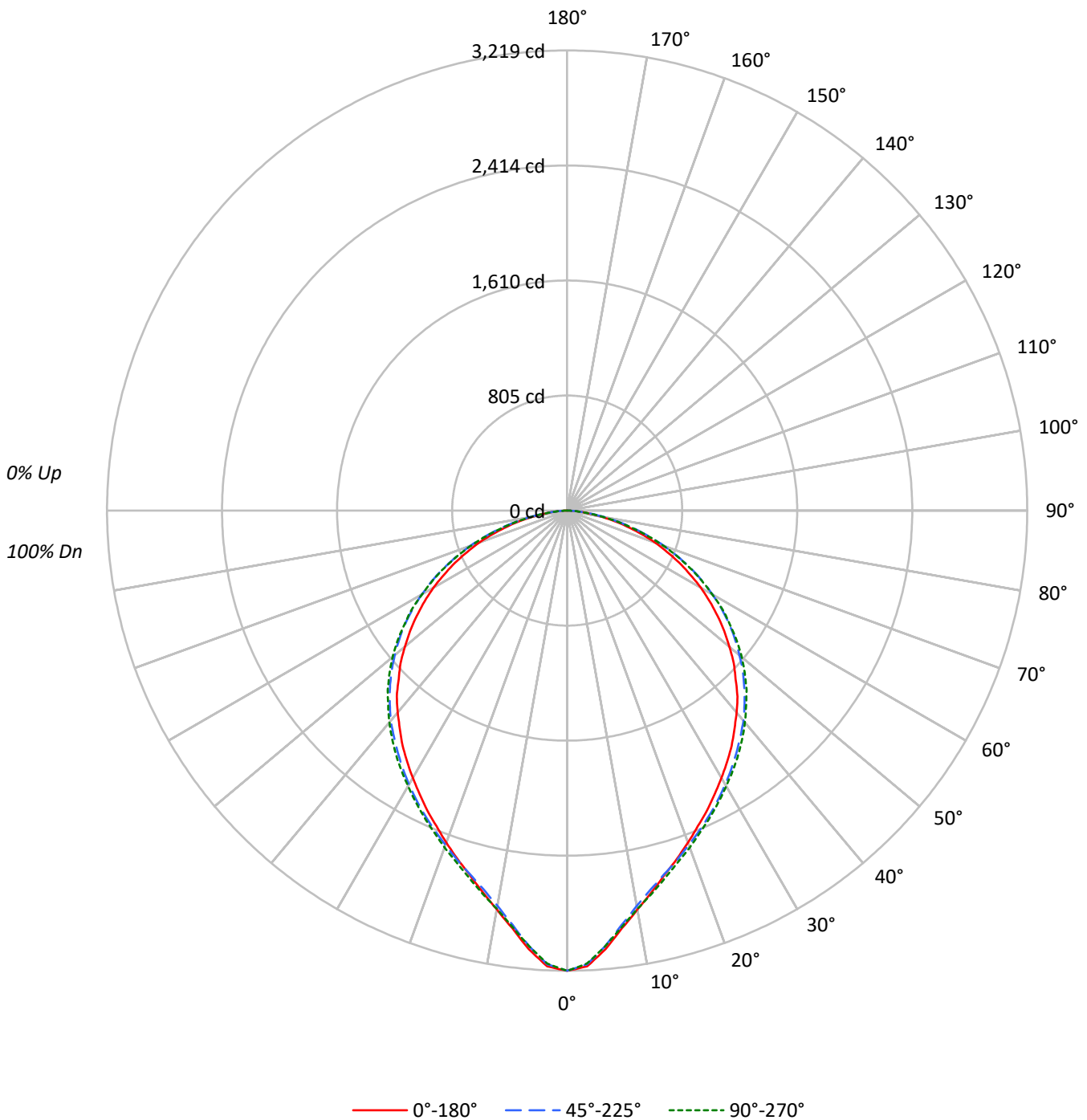
Lumens per Lamp: N/A
Luminaire Lumens: 7477.4 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 83.2
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°	8663	8663	8663
5°	8318	8259	8259
10°	7741	7671	7730
15°	7346	7332	7404
20°	7076	7127	7182
25°	6874	6986	7027
30°	6708	6874	6916
35°	6593	6786	6855
40°	6476	6739	6796
45°	6343	6673	6753
50°	6203	6590	6678
55°	6031	6495	6521
60°	5814	6316	6303
65°	5511	6074	6033
70°	5145	5664	5595
75°	4541	5019	4968
80°	3690	4090	3888
85°	2560	2606	2507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.5	3.8
10°-20°	745.1	10.0
20°-30°	1083.5	14.5
30°-40°	1289.3	17.2
40°-50°	1338.8	17.9
50°-60°	1212.8	16.2
60°-70°	915.2	12.2
70°-80°	498.7	6.7
80°-90°	109.6	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°	2113.0	28.3
0°-40°	3402.3	45.5
0°-60°	5954.0	79.6
0°-90°	7477.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7477.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3219	3219	3219	3219	3219	
5°	3079	3072	3057	3056	3057	286
15°	2637	2630	2632	2650	2658	744
25°	2315	2334	2353	2372	2366	1067
35°	2007	2031	2066	2097	2087	1255
45°	1667	1696	1754	1773	1774	1288
55°	1285	1316	1384	1394	1390	1148
65°	866	890	954	952	948	856
75°	437	454	483	486	478	465
85°	83	84	84	84	81	105
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3219.1	3219.1	3219.1	3219.1	3219.1
2.5°	3191.0	3187.8	3177.3	3173.3	3172.4
5°	3079.2	3071.9	3057.4	3055.9	3057.4
7.5°	2945.6	2937.6	2923.1	2928.8	2936.0
10°	2833.0	2812.9	2807.3	2815.3	2829.0
12.5°	2732.4	2716.4	2711.5	2732.4	2742.2
15°	2636.7	2630.3	2631.9	2649.6	2657.6
17.5°	2553.9	2549.9	2560.4	2574.0	2578.1
20°	2471.1	2479.1	2488.8	2503.3	2508.0
22.5°	2389.8	2405.1	2421.2	2440.5	2434.1
25°	2315.0	2334.3	2352.8	2372.1	2366.5
27.5°	2235.4	2257.9	2283.6	2304.6	2296.5
30°	2158.9	2187.1	2212.1	2237.8	2225.7
32.5°	2083.4	2109.9	2139.6	2171.0	2157.4
35°	2006.9	2031.1	2065.7	2097.0	2086.6
37.5°	1922.5	1952.2	1991.6	2019.0	2011.8
40°	1843.6	1871.0	1918.5	1936.2	1934.5
42.5°	1764.0	1786.6	1836.4	1856.5	1853.3
45°	1666.7	1696.4	1753.5	1772.9	1774.5
47.5°	1580.6	1605.6	1666.7	1681.9	1685.2
50°	1481.7	1513.1	1574.2	1592.6	1595.1
52.5°	1384.3	1418.1	1480.9	1493.7	1496.2
55°	1285.4	1315.9	1384.3	1394.0	1390.0
57.5°	1181.6	1218.6	1281.4	1286.2	1290.2
60°	1080.2	1112.5	1173.6	1180.0	1171.2
62.5°	970.1	1003.1	1065.8	1067.4	1060.1
65°	865.5	890.4	954.0	952.4	947.5
67.5°	756.1	786.6	833.3	834.9	831.0
70°	653.9	674.9	719.9	720.7	711.1
72.5°	543.8	566.3	602.4	597.7	595.3
75°	436.8	454.5	482.7	485.9	477.8
77.5°	338.7	351.5	372.4	370.0	361.2
80°	238.1	248.5	263.9	260.6	250.9
82.5°	152.0	158.5	168.1	164.1	160.1
85°	82.9	83.6	84.4	83.6	81.2
87.5°	30.6	31.4	31.4	30.6	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)