

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: P489367

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-5HI-40-120-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: P489367  
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-40-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

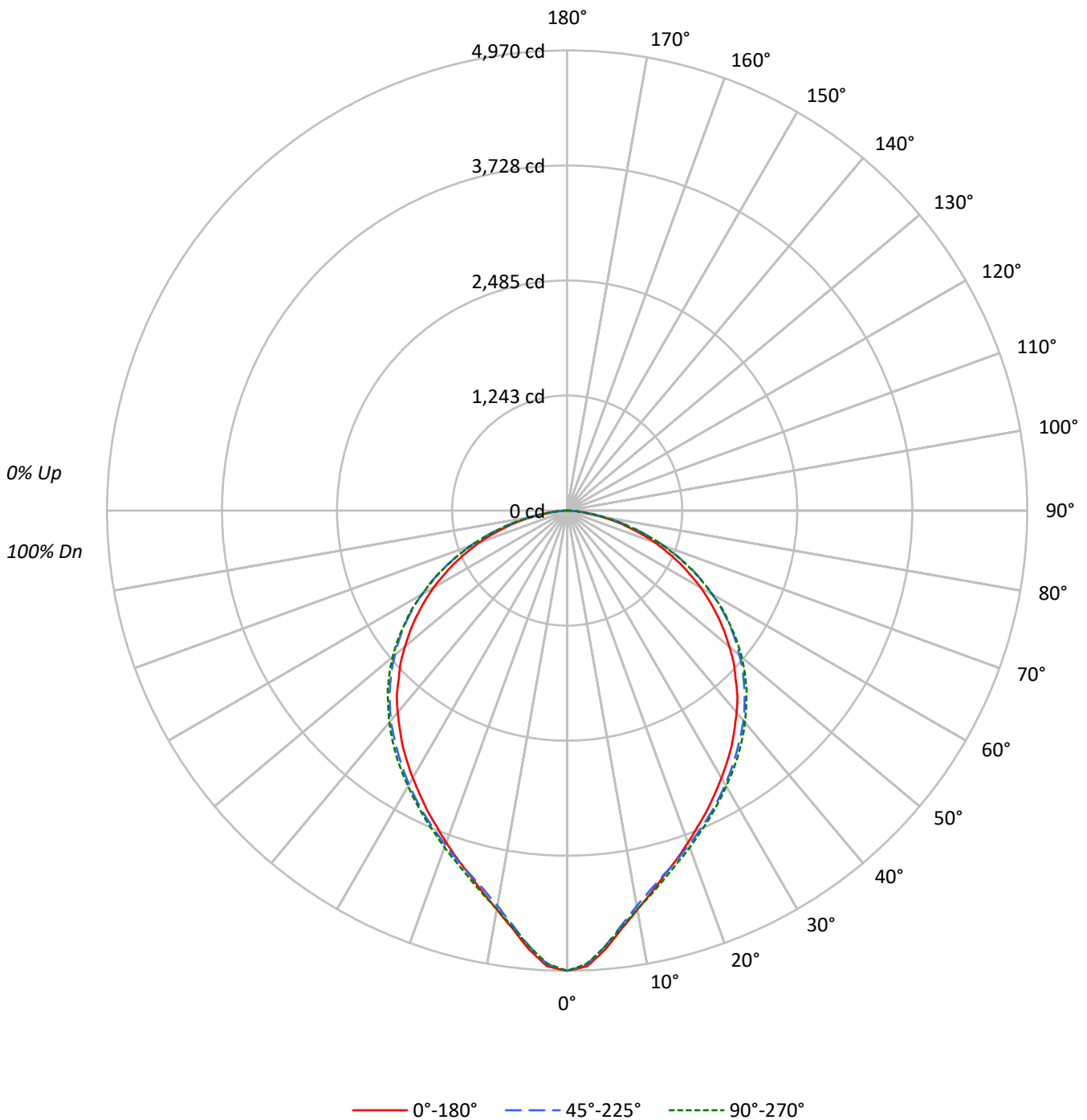
Lumens per Lamp: N/A  
Luminaire Lumens: 11545.0 lumens  
Efficiency: N/A  
Efficacy: 106.9 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	13375	13375	13375
5°	12842	12752	12752
10°	11952	11844	11935
15°	11342	11321	11432
20°	10926	11004	11089
25°	10613	10786	10849
30°	10357	10613	10678
35°	10179	10477	10584
40°	10000	10405	10492
45°	9793	10303	10426
50°	9577	10175	10310
55°	9311	10028	10069
60°	8977	9752	9732
65°	8509	9379	9316
70°	7944	8745	8638
75°	7012	7748	7670
80°	5697	6313	6003
85°	3949	4026	3872



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	439.2	3.8
10°-20°	1150.4	10.0
20°-30°	1672.9	14.5
30°-40°	1990.7	17.2
40°-50°	2067.0	17.9
50°-60°	1872.6	16.2
60°-70°	1413.1	12.2
70°-80°	769.9	6.7
80°-90°	169.2	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°	3262.5	28.3
0°-40°	5253.2	45.5
0°-60°	9192.8	79.6
0°-90°	11545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11545.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4970	4970	4970	4970	4970	
5°	4754	4743	4721	4718	4721	441
15°	4071	4061	4064	4091	4103	1149
25°	3574	3604	3633	3662	3654	1647
35°	3099	3136	3189	3238	3222	1937
45°	2573	2619	2707	2737	2740	1989
55°	1985	2032	2137	2152	2146	1772
65°	1336	1375	1473	1470	1463	1321
75°	674	702	745	750	738	718
85°	128	129	130	129	125	161
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4970.3	4970.3	4970.3	4970.3	4970.3
2.5°	4926.8	4921.8	4905.7	4899.5	4898.2
5°	4754.2	4743.0	4720.6	4718.2	4720.6
7.5°	4548.0	4535.6	4513.3	4522.0	4533.1
10°	4374.2	4343.1	4334.4	4346.8	4367.9
12.5°	4218.9	4194.1	4186.6	4218.9	4233.9
15°	4071.1	4061.1	4063.7	4091.0	4103.4
17.5°	3943.2	3937.0	3953.1	3974.3	3980.5
20°	3815.3	3827.7	3842.6	3865.0	3872.4
22.5°	3689.9	3713.4	3738.3	3768.1	3758.2
25°	3574.4	3604.1	3632.7	3662.5	3653.9
27.5°	3451.4	3486.1	3525.9	3558.2	3545.8
30°	3333.3	3376.8	3415.4	3455.1	3436.5
32.5°	3216.7	3257.7	3303.6	3352.0	3330.9
35°	3098.7	3135.9	3189.4	3237.8	3221.7
37.5°	2968.3	3014.2	3075.0	3117.2	3106.2
40°	2846.6	2888.8	2962.1	2989.4	2986.9
42.5°	2723.6	2758.4	2835.4	2866.4	2861.5
45°	2573.4	2619.3	2707.4	2737.3	2739.7
47.5°	2440.4	2479.0	2573.4	2596.9	2601.9
50°	2287.7	2336.1	2430.5	2459.0	2462.8
52.5°	2137.4	2189.5	2286.4	2306.3	2310.1
55°	1984.6	2031.8	2137.4	2152.3	2146.1
57.5°	1824.4	1881.6	1978.5	1985.9	1992.1
60°	1667.9	1717.6	1812.0	1821.9	1808.3
62.5°	1497.8	1548.7	1645.6	1648.0	1636.9
65°	1336.3	1374.8	1472.9	1470.5	1463.0
67.5°	1167.4	1214.6	1286.7	1289.1	1283.0
70°	1009.7	1042.0	1111.5	1112.8	1097.9
72.5°	839.6	874.3	930.2	922.8	919.1
75°	674.4	701.7	745.2	750.2	737.7
77.5°	522.9	542.7	575.0	571.3	557.6
80°	367.6	383.7	407.4	402.4	387.4
82.5°	234.7	244.7	259.6	253.4	247.1
85°	127.9	129.1	130.4	129.1	125.4
87.5°	47.2	48.5	48.5	47.2	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)