

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: P489276

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2STD-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: P489276  
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-LD4-2STD-27-120-EDD-90  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

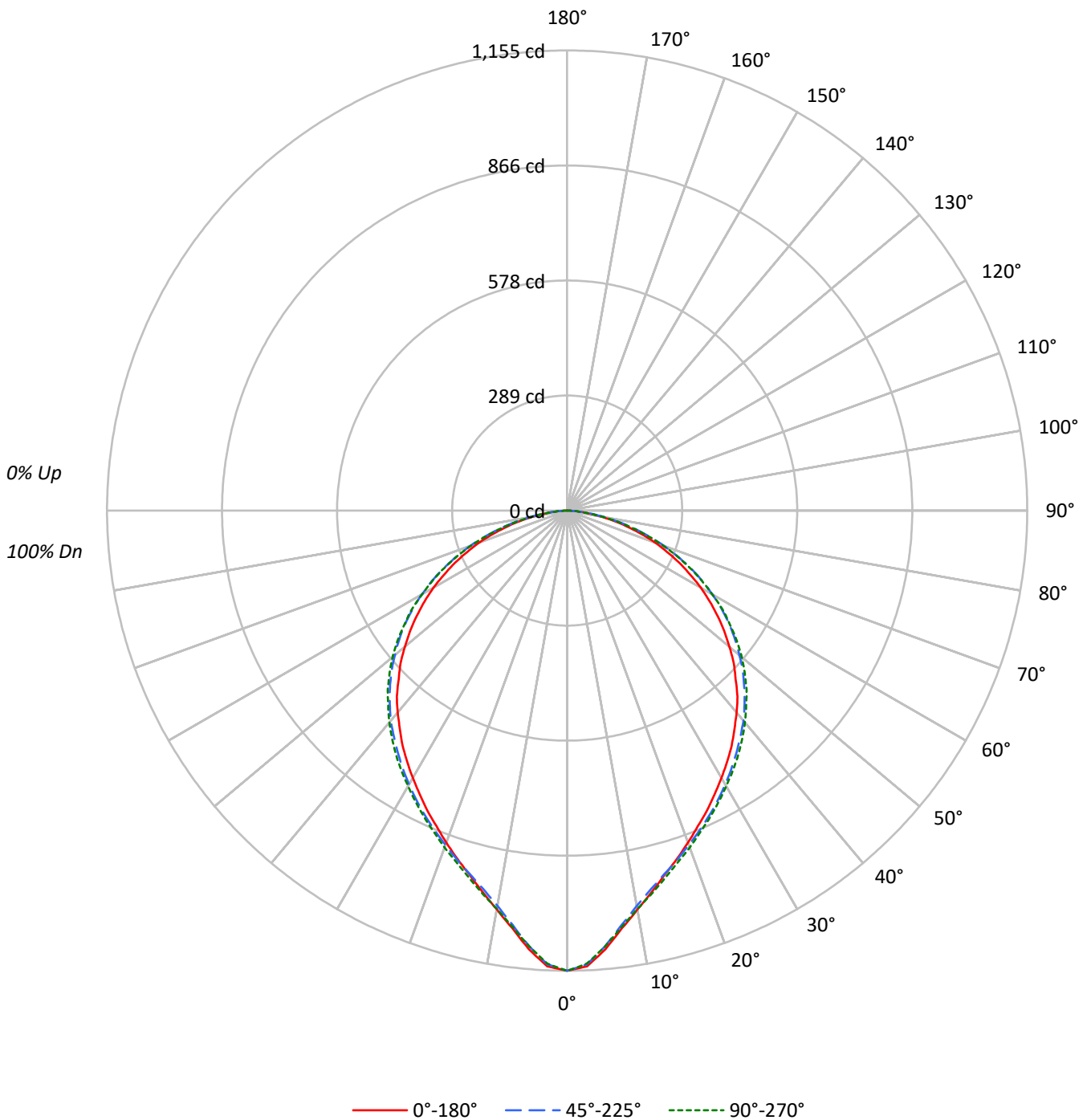
Lumens per Lamp: N/A  
Luminaire Lumens: 2682.9 lumens  
Efficiency: N/A  
Efficacy: 80.6 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 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°	3108	3108	3108
5°	2984	2963	2963
10°	2778	2752	2773
15°	2636	2631	2657
20°	2539	2557	2577
25°	2466	2507	2521
30°	2407	2466	2481
35°	2366	2435	2460
40°	2324	2418	2438
45°	2276	2394	2423
50°	2226	2364	2396
55°	2164	2330	2340
60°	2086	2266	2261
65°	1977	2180	2165
70°	1846	2032	2007
75°	1629	1801	1782
80°	1323	1468	1395
85°	917	936	898



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.1	3.8
10°-20°	267.3	10.0
20°-30°	388.8	14.5
30°-40°	462.6	17.2
40°-50°	480.3	17.9
50°-60°	435.2	16.2
60°-70°	328.4	12.2
70°-80°	178.9	6.7
80°-90°	39.3	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°	758.2	28.3
0°-40°	1220.8	45.5
0°-60°	2136.3	79.6
0°-90°	2682.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2682.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1155	1155	1155	1155	1155	
5°	1105	1102	1097	1096	1097	103
15°	946	944	944	951	954	267
25°	831	838	844	851	849	383
35°	720	729	741	752	749	450
45°	598	609	629	636	637	462
55°	461	472	497	500	499	412
65°	310	320	342	342	340	307
75°	157	163	173	174	171	167
85°	30	30	30	30	29	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1155.0	1155.0	1155.0	1155.0	1155.0
2.5°	1144.9	1143.8	1140.0	1138.6	1138.3
5°	1104.8	1102.2	1097.0	1096.4	1097.0
7.5°	1056.9	1054.0	1048.8	1050.8	1053.4
10°	1016.5	1009.3	1007.2	1010.1	1015.0
12.5°	980.4	974.6	972.9	980.4	983.9
15°	946.1	943.8	944.3	950.7	953.6
17.5°	916.4	914.9	918.7	923.6	925.0
20°	886.6	889.5	893.0	898.2	899.9
22.5°	857.5	862.9	868.7	875.7	873.3
25°	830.6	837.6	844.2	851.1	849.1
27.5°	802.1	810.1	819.4	826.9	824.0
30°	774.6	784.7	793.7	802.9	798.6
32.5°	747.5	757.0	767.7	779.0	774.1
35°	720.1	728.7	741.2	752.4	748.7
37.5°	689.8	700.5	714.6	724.4	721.8
40°	661.5	671.3	688.3	694.7	694.1
42.5°	632.9	641.0	658.9	666.1	665.0
45°	598.0	608.7	629.2	636.1	636.7
47.5°	567.1	576.1	598.0	603.5	604.6
50°	531.6	542.9	564.8	571.4	572.3
52.5°	496.7	508.8	531.3	535.9	536.8
55°	461.2	472.2	496.7	500.2	498.7
57.5°	424.0	437.2	459.8	461.5	462.9
60°	387.6	399.1	421.1	423.4	420.2
62.5°	348.1	359.9	382.4	383.0	380.4
65°	310.5	319.5	342.3	341.7	340.0
67.5°	271.3	282.3	299.0	299.6	298.1
70°	234.6	242.1	258.3	258.6	255.1
72.5°	195.1	203.2	216.2	214.4	213.6
75°	156.7	163.1	173.2	174.3	171.4
77.5°	121.5	126.1	133.6	132.8	129.6
80°	85.4	89.2	94.7	93.5	90.0
82.5°	54.5	56.9	60.3	58.9	57.4
85°	29.7	30.0	30.3	30.0	29.1
87.5°	11.0	11.3	11.3	11.0	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)