

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: P489263

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-20-120-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: P489263  
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-LD4-2LO-20-120-EDD  
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.    Condition    Description

**Summary**

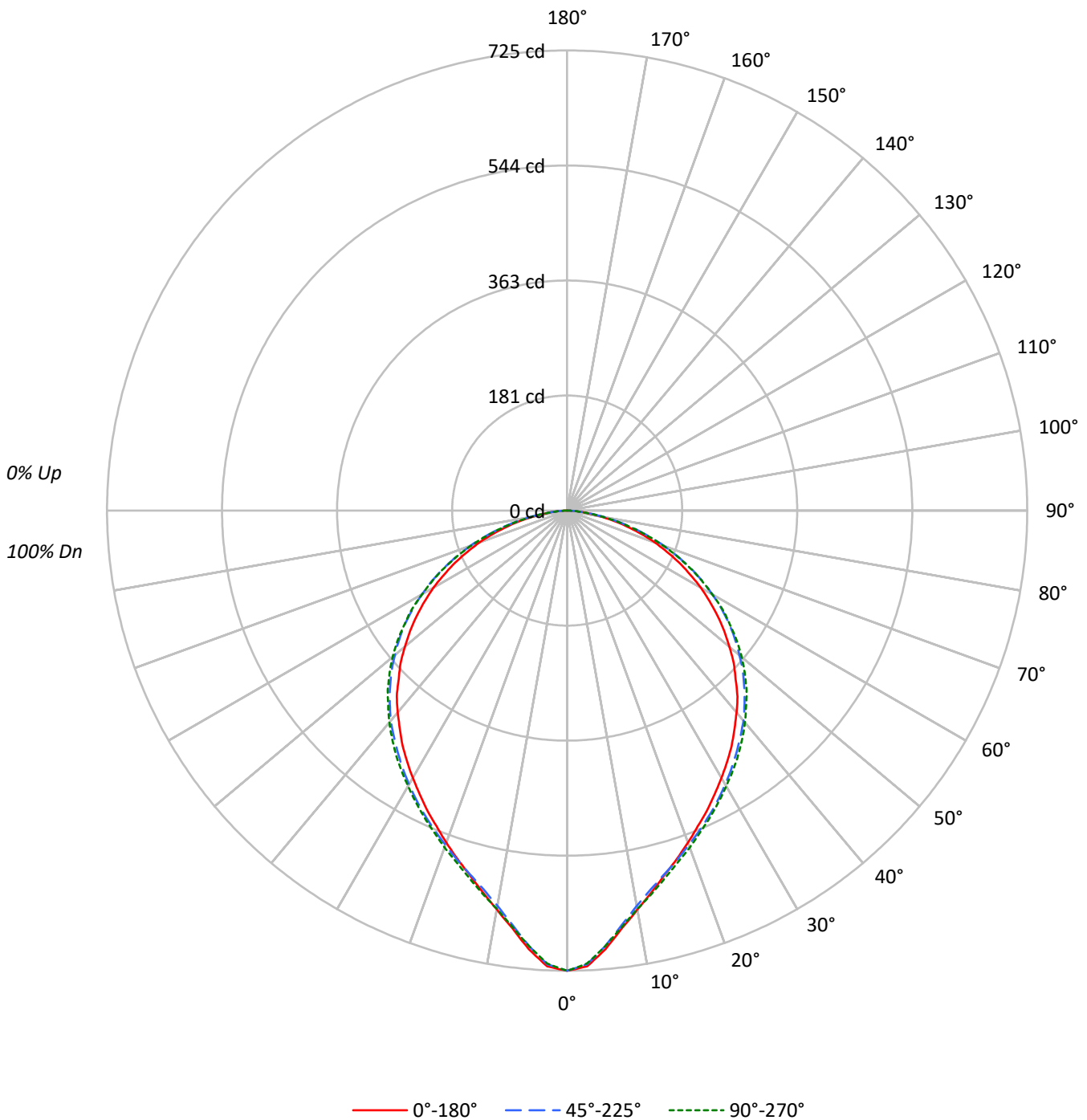
Lumens per Lamp: N/A  
Luminaire Lumens: 1684.1 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 23.4  
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1951	1951	1951
5°	1873	1860	1860
10°	1744	1728	1741
15°	1655	1651	1668
20°	1594	1605	1618
25°	1548	1573	1583
30°	1511	1548	1558
35°	1485	1528	1544
40°	1459	1518	1531
45°	1429	1503	1521
50°	1397	1484	1504
55°	1358	1463	1469
60°	1309	1422	1420
65°	1241	1368	1359
70°	1159	1275	1260
75°	1023	1130	1119
80°	831	921	876
85°	577	587	565



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	3.8
10°-20°	167.8	10.0
20°-30°	244.0	14.5
30°-40°	290.4	17.2
40°-50°	301.5	17.9
50°-60°	273.2	16.2
60°-70°	206.1	12.2
70°-80°	112.3	6.7
80°-90°	24.7	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°	475.9	28.3
0°-40°	766.3	45.5
0°-60°	1341.0	79.6
0°-90°	1684.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1684.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	694	692	689	688	689	64
15°	594	592	593	597	599	168
25°	521	526	530	534	533	240
35°	452	457	465	472	470	283
45°	375	382	395	399	400	290
55°	290	296	312	314	313	258
65°	195	200	215	214	213	193
75°	98	102	109	109	108	105
85°	19	19	19	19	18	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	725.0	725.0	725.0	725.0	725.0
2.5°	718.7	718.0	715.6	714.7	714.5
5°	693.5	691.9	688.6	688.3	688.6
7.5°	663.4	661.6	658.4	659.6	661.3
10°	638.1	633.5	632.3	634.1	637.2
12.5°	615.4	611.8	610.7	615.4	617.6
15°	593.9	592.4	592.8	596.8	598.6
17.5°	575.2	574.3	576.7	579.7	580.6
20°	556.5	558.4	560.5	563.8	564.9
22.5°	538.2	541.7	545.3	549.7	548.2
25°	521.4	525.7	529.9	534.3	533.0
27.5°	503.5	508.5	514.3	519.0	517.2
30°	486.2	492.6	498.2	504.0	501.3
32.5°	469.2	475.2	481.9	489.0	485.9
35°	452.0	457.4	465.2	472.3	470.0
37.5°	433.0	439.7	448.6	454.7	453.1
40°	415.2	421.4	432.1	436.1	435.7
42.5°	397.3	402.4	413.6	418.1	417.4
45°	375.4	382.1	394.9	399.3	399.7
47.5°	356.0	361.6	375.4	378.8	379.5
50°	333.7	340.8	354.5	358.7	359.3
52.5°	311.8	319.4	333.5	336.4	337.0
55°	289.5	296.4	311.8	314.0	313.1
57.5°	266.1	274.5	288.6	289.7	290.6
60°	243.3	250.6	264.3	265.8	263.8
62.5°	218.5	225.9	240.1	240.4	238.8
65°	194.9	200.5	214.9	214.5	213.4
67.5°	170.3	177.2	187.7	188.0	187.2
70°	147.3	152.0	162.1	162.3	160.2
72.5°	122.5	127.5	135.7	134.6	134.1
75°	98.4	102.4	108.7	109.4	107.6
77.5°	76.3	79.2	83.9	83.3	81.3
80°	53.6	56.0	59.4	58.7	56.5
82.5°	34.2	35.7	37.9	37.0	36.1
85°	18.7	18.8	19.0	18.8	18.3
87.5°	6.9	7.1	7.1	6.9	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)