

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: P489769

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1LO-27-120-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: P489769
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-24-4-INS-P12125-LD4-1LO-27-120-EDD
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

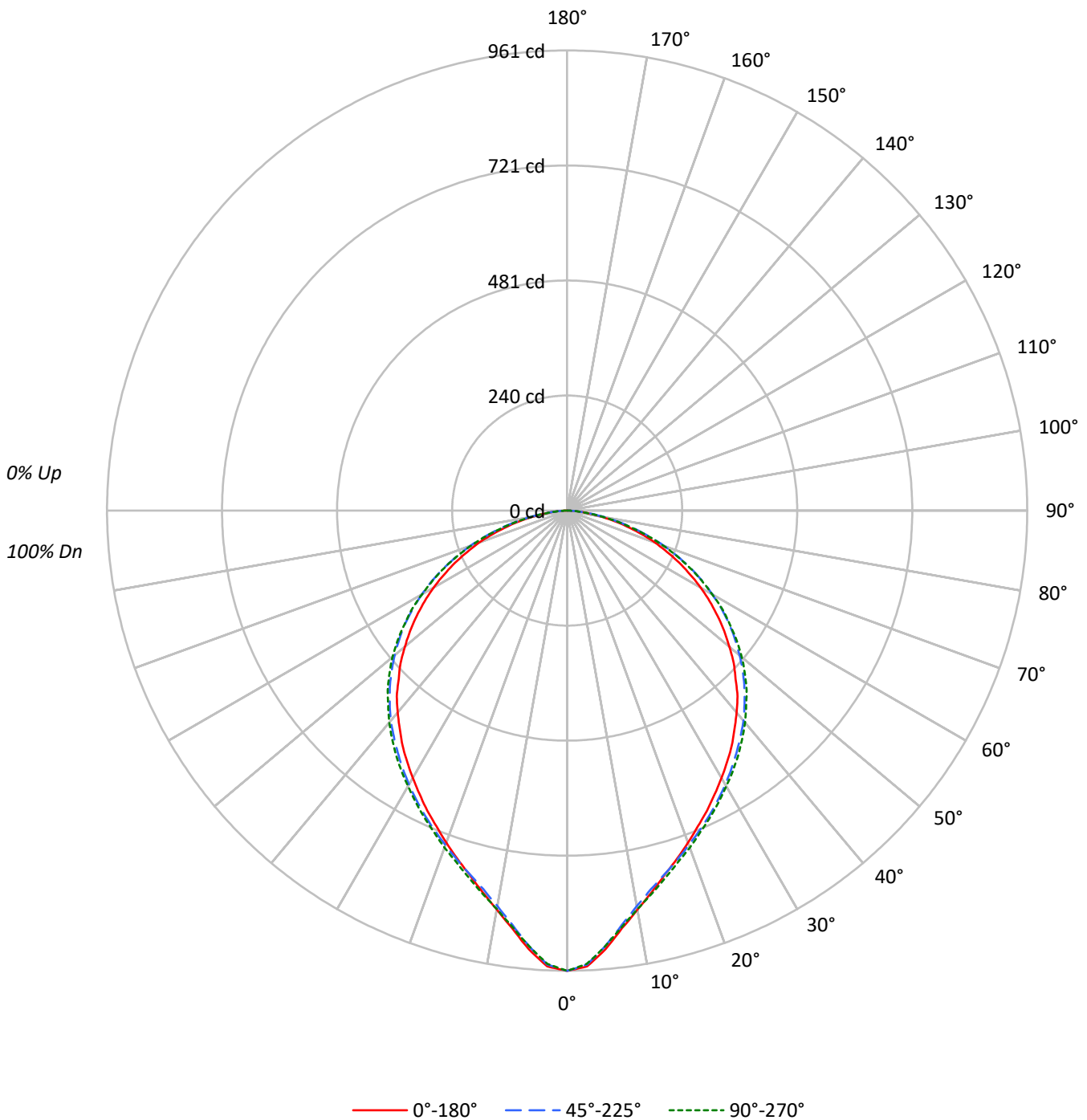
Lumens per Lamp: N/A
Luminaire Lumens: 2232.8 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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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CATALOG NUMBER: CLM-24-4-INS-P12125-LD4-1LO-27-120-EDD

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°	1293	1293	1293
5°	1242	1233	1233
10°	1156	1145	1154
15°	1097	1095	1105
20°	1057	1064	1072
25°	1026	1043	1049
30°	1002	1026	1033
35°	984	1013	1023
40°	967	1006	1015
45°	947	996	1008
50°	926	984	997
55°	900	970	974
60°	868	943	941
65°	823	907	901
70°	768	846	835
75°	678	749	742
80°	551	611	580
85°	381	389	375



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.9	3.8
10°-20°	222.5	10.0
20°-30°	323.5	14.5
30°-40°	385.0	17.2
40°-50°	399.8	17.9
50°-60°	362.2	16.2
60°-70°	273.3	12.2
70°-80°	148.9	6.7
80°-90°	32.7	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°	631.0	28.3
0°-40°	1016.0	45.5
0°-60°	1777.9	79.6
0°-90°	2232.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2232.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	920	917	913	912	913	85
15°	787	785	786	791	794	222
25°	691	697	703	708	707	319
35°	599	606	617	626	623	375
45°	498	507	524	529	530	385
55°	384	393	413	416	415	343
65°	258	266	285	284	283	256
75°	130	136	144	145	143	139
85°	25	25	25	25	24	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	961.3	961.3	961.3	961.3	961.3
2.5°	952.8	951.9	948.8	947.6	947.3
5°	919.5	917.3	913.0	912.5	913.0
7.5°	879.6	877.2	872.9	874.5	876.7
10°	846.0	840.0	838.3	840.7	844.8
12.5°	815.9	811.1	809.7	815.9	818.8
15°	787.3	785.4	785.9	791.2	793.6
17.5°	762.6	761.4	764.5	768.6	769.8
20°	737.9	740.3	743.2	747.5	748.9
22.5°	713.6	718.2	723.0	728.7	726.8
25°	691.3	697.0	702.6	708.3	706.7
27.5°	667.5	674.2	681.9	688.2	685.7
30°	644.7	653.1	660.5	668.2	664.6
32.5°	622.1	630.0	638.9	648.3	644.2
35°	599.3	606.5	616.8	626.2	623.1
37.5°	574.1	582.9	594.7	602.9	600.7
40°	550.5	558.7	572.9	578.2	577.7
42.5°	526.7	533.5	548.4	554.4	553.4
45°	497.7	506.6	523.6	529.4	529.9
47.5°	472.0	479.4	497.7	502.2	503.2
50°	442.4	451.8	470.1	475.6	476.3
52.5°	413.4	423.4	442.2	446.0	446.8
55°	383.8	392.9	413.4	416.3	415.1
57.5°	352.8	363.9	382.6	384.1	385.3
60°	322.6	332.2	350.4	352.4	349.7
62.5°	289.7	299.5	318.3	318.7	316.6
65°	258.4	265.9	284.9	284.4	282.9
67.5°	225.8	234.9	248.8	249.3	248.1
70°	195.3	201.5	215.0	215.2	212.3
72.5°	162.4	169.1	179.9	178.5	177.8
75°	130.4	135.7	144.1	145.1	142.7
77.5°	101.1	105.0	111.2	110.5	107.8
80°	71.1	74.2	78.8	77.8	74.9
82.5°	45.4	47.3	50.2	49.0	47.8
85°	24.7	25.0	25.2	25.0	24.3
87.5°	9.1	9.4	9.4	9.1	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)