

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: P489265

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-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: P489265
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-27-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

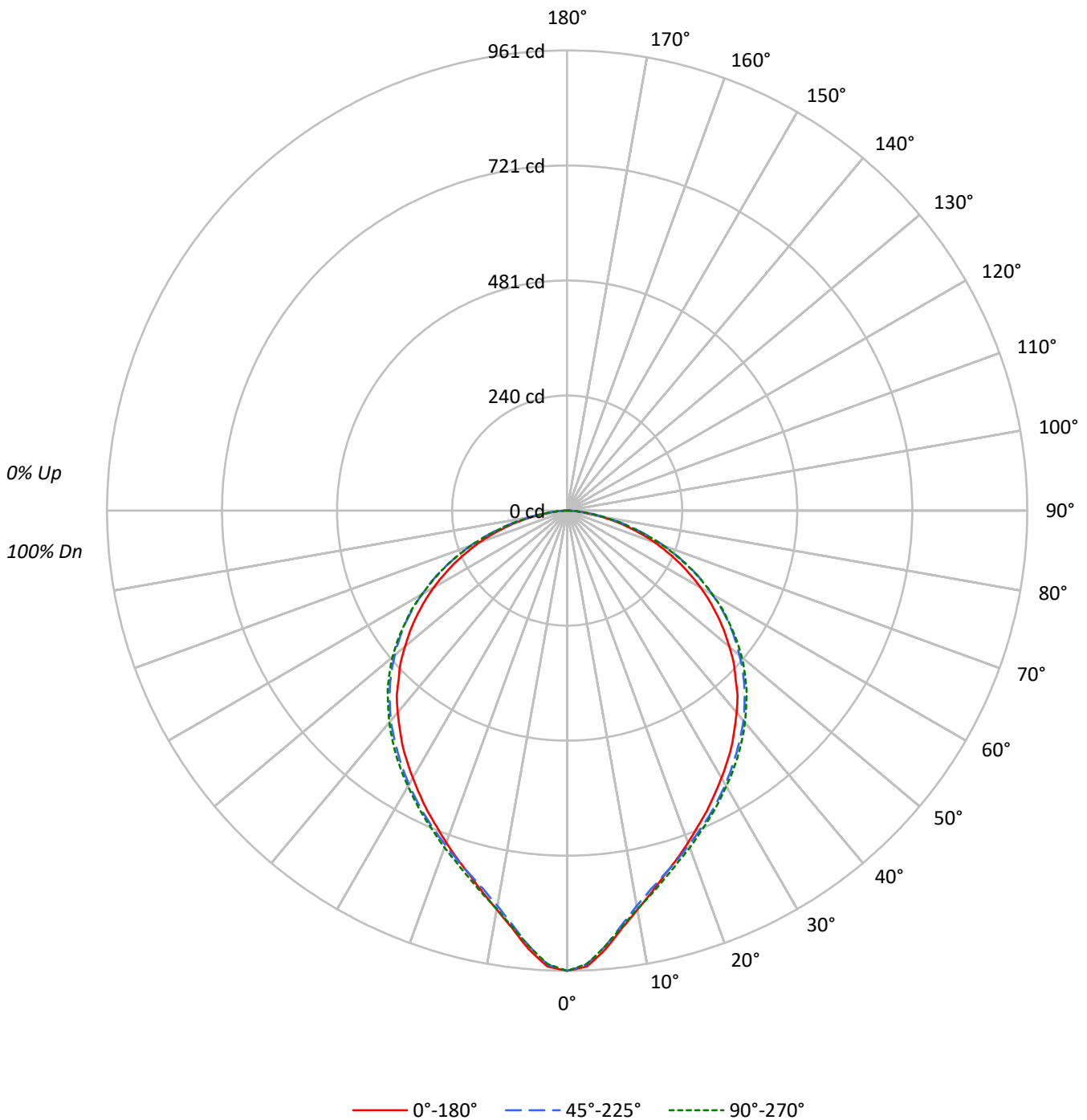
Lumens per Lamp: N/A
Luminaire Lumens: 2232.7 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	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°	2587	2587	2587
5°	2484	2466	2466
10°	2311	2290	2308
15°	2193	2189	2211
20°	2113	2128	2145
25°	2053	2086	2098
30°	2003	2052	2065
35°	1969	2026	2047
40°	1934	2012	2029
45°	1894	1993	2016
50°	1852	1968	1994
55°	1801	1939	1947
60°	1736	1886	1882
65°	1645	1813	1801
70°	1537	1692	1670
75°	1356	1498	1484
80°	1102	1221	1161
85°	763	778	750



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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°	399.7	17.9
50°-60°	362.1	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°	630.9	28.3
0°-40°	1015.9	45.5
0°-60°	1777.8	79.6
0°-90°	2232.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2232.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	961	961	961	961	961	
5°	919	917	913	912	913	85
15°	787	785	786	791	794	222
25°	691	697	702	708	707	319
35°	599	606	617	626	623	375
45°	498	506	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°	961.2	961.2	961.2	961.2	961.2
2.5°	952.8	951.8	948.7	947.5	947.3
5°	919.4	917.3	912.9	912.5	912.9
7.5°	879.5	877.1	872.8	874.5	876.7
10°	845.9	839.9	838.2	840.6	844.7
12.5°	815.9	811.1	809.6	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°	737.8	740.2	743.1	747.5	748.9
22.5°	713.6	718.1	723.0	728.7	726.8
25°	691.3	697.0	702.5	708.3	706.6
27.5°	667.5	674.2	681.9	688.1	685.7
30°	644.6	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	623.0
37.5°	574.0	582.9	594.7	602.8	600.7
40°	550.5	558.7	572.8	578.1	577.6
42.5°	526.7	533.5	548.3	554.3	553.4
45°	497.7	506.5	523.6	529.4	529.8
47.5°	472.0	479.4	497.7	502.2	503.2
50°	442.4	451.8	470.0	475.6	476.3
52.5°	413.3	423.4	442.2	446.0	446.7
55°	383.8	392.9	413.3	416.2	415.0
57.5°	352.8	363.9	382.6	384.0	385.3
60°	322.6	332.2	350.4	352.3	349.7
62.5°	289.7	299.5	318.2	318.7	316.6
65°	258.4	265.9	284.8	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	177.7
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)