

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: P489780

Luminaire Tested: **CLM-24-4-INS-P12125-LD4-1STD-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: P489780
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-LD4-1STD-27-120-EDD-90
Description: 2X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

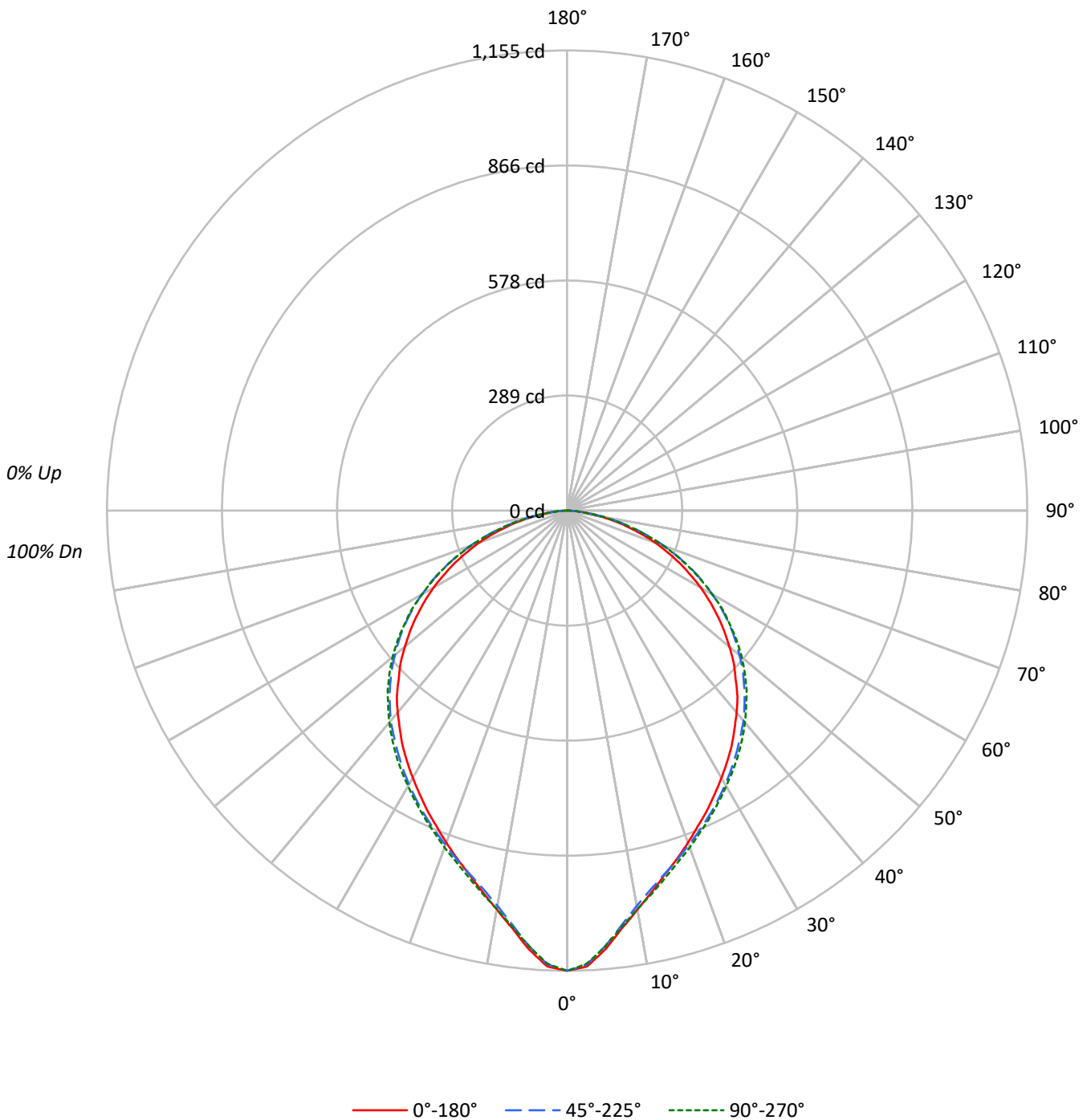
Lumens per Lamp: N/A
Luminaire Lumens: 2683.0 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (A_{in}): 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°	1554	1554	1554
5°	1492	1482	1482
10°	1389	1376	1387
15°	1318	1316	1328
20°	1270	1279	1289
25°	1233	1253	1261
30°	1204	1233	1241
35°	1183	1217	1230
40°	1162	1209	1219
45°	1138	1197	1212
50°	1113	1182	1198
55°	1082	1165	1170
60°	1043	1133	1131
65°	989	1090	1082
70°	923	1016	1004
75°	815	900	891
80°	662	734	697
85°	459	468	449



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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°	480.4	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°	2136.4	79.6
0°-90°	2683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2683.0	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°	1155.1	1155.1	1155.1	1155.1	1155.1
2.5°	1145.0	1143.8	1140.1	1138.6	1138.3
5°	1104.9	1102.3	1097.1	1096.5	1097.1
7.5°	1056.9	1054.0	1048.9	1050.9	1053.5
10°	1016.5	1009.3	1007.3	1010.2	1015.1
12.5°	980.4	974.7	972.9	980.4	983.9
15°	946.1	943.8	944.4	950.7	953.6
17.5°	916.4	914.9	918.7	923.6	925.0
20°	886.7	889.5	893.0	898.2	899.9
22.5°	857.5	863.0	868.8	875.7	873.4
25°	830.7	837.6	844.2	851.1	849.1
27.5°	802.1	810.2	819.4	826.9	824.0
30°	774.7	784.8	793.7	802.9	798.6
32.5°	747.5	757.1	767.7	779.0	774.1
35°	720.1	728.8	741.2	752.5	748.7
37.5°	689.8	700.5	714.6	724.4	721.9
40°	661.5	671.3	688.4	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	604.7
50°	531.6	542.9	564.8	571.5	572.3
52.5°	496.7	508.8	531.4	536.0	536.8
55°	461.2	472.2	496.7	500.2	498.7
57.5°	424.0	437.3	459.8	461.5	463.0
60°	387.6	399.2	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	298.2
70°	234.6	242.1	258.3	258.6	255.2
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)