

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: P489240

Luminaire Tested: **CLM-24-2-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: P489240
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-LD4-1STD-27-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

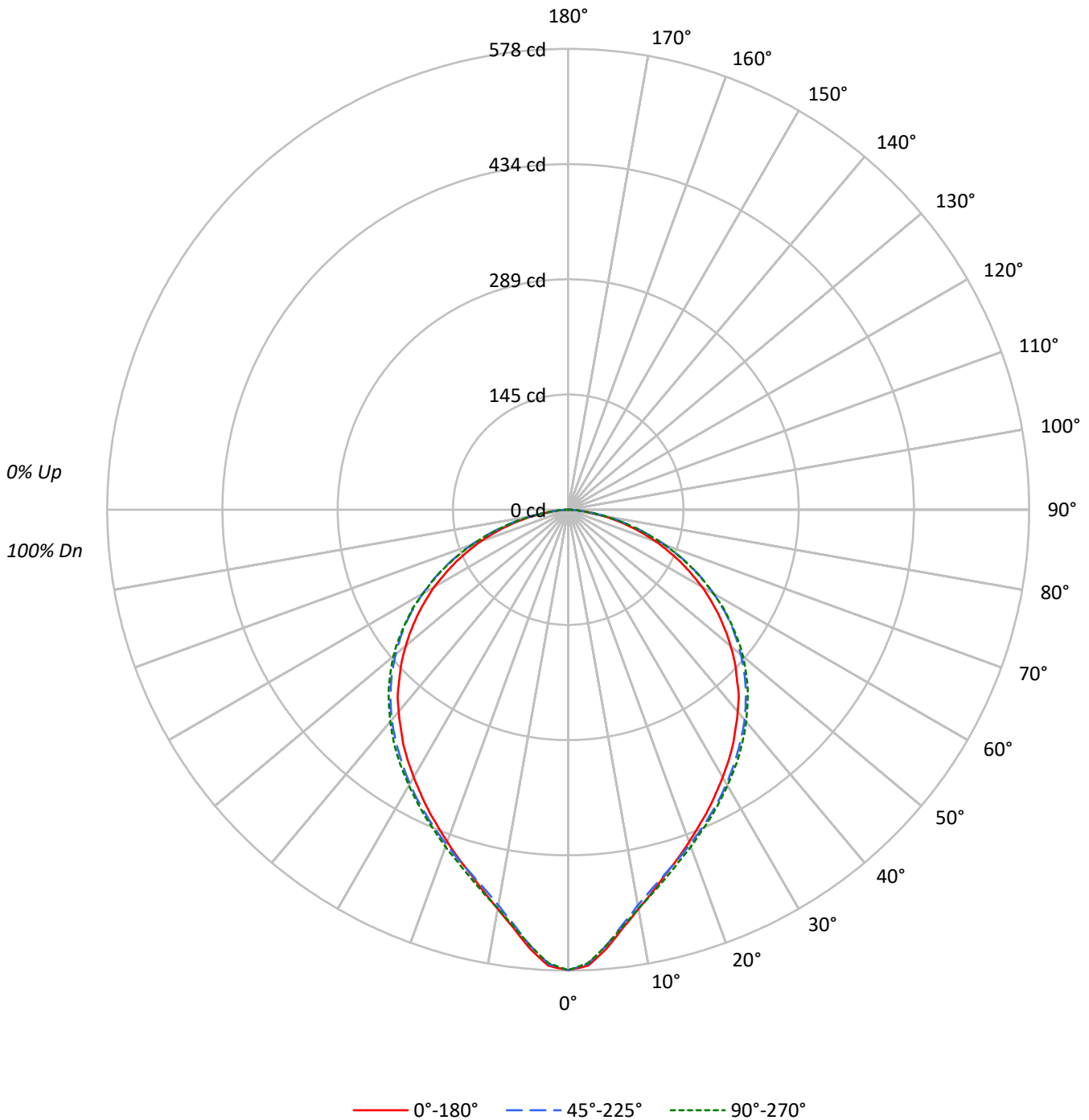
Lumens per Lamp: N/A
Luminaire Lumens: 1341.5 lumens
Efficiency: N/A
Efficacy: 80.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	1554	1554	1554
5°	1492	1482	1482
10°	1389	1376	1387
15°	1318	1316	1328
20°	1269	1279	1289
25°	1233	1253	1261
30°	1203	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	1089	1082
70°	923	1017	1004
75°	815	900	891
80°	662	733	697
85°	460	466	451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.0	3.8
10°-20°	133.7	10.0
20°-30°	194.4	14.5
30°-40°	231.3	17.2
40°-50°	240.2	17.9
50°-60°	217.6	16.2
60°-70°	164.2	12.2
70°-80°	89.5	6.7
80°-90°	19.7	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°	379.1	28.3
0°-40°	610.4	45.5
0°-60°	1068.2	79.6
0°-90°	1341.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1341.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	578	578	578	578	578	
5°	552	551	548	548	548	51
15°	473	472	472	475	477	134
25°	415	419	422	426	425	191
35°	360	364	371	376	374	225
45°	299	304	315	318	318	231
55°	231	236	248	250	249	206
65°	155	160	171	171	170	153
75°	78	82	87	87	86	83
85°	15	15	15	15	15	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	577.5	577.5	577.5	577.5	577.5
2.5°	572.5	571.9	570.0	569.3	569.2
5°	552.4	551.1	548.5	548.2	548.5
7.5°	528.5	527.0	524.4	525.4	526.7
10°	508.3	504.7	503.6	505.1	507.5
12.5°	490.2	487.3	486.5	490.2	492.0
15°	473.0	471.9	472.2	475.4	476.8
17.5°	458.2	457.5	459.3	461.8	462.5
20°	443.3	444.8	446.5	449.1	450.0
22.5°	428.8	431.5	434.4	437.8	436.7
25°	415.3	418.8	422.1	425.6	424.6
27.5°	401.0	405.1	409.7	413.5	412.0
30°	387.3	392.4	396.9	401.5	399.3
32.5°	373.8	378.5	383.9	389.5	387.0
35°	360.1	364.4	370.6	376.2	374.3
37.5°	344.9	350.2	357.3	362.2	360.9
40°	330.8	335.7	344.2	347.4	347.1
42.5°	316.5	320.5	329.5	333.1	332.5
45°	299.0	304.4	314.6	318.1	318.4
47.5°	283.6	288.1	299.0	301.8	302.3
50°	265.8	271.5	282.4	285.7	286.2
52.5°	248.4	254.4	265.7	268.0	268.4
55°	230.6	236.1	248.4	250.1	249.4
57.5°	212.0	218.6	229.9	230.8	231.5
60°	193.8	199.6	210.5	211.7	210.1
62.5°	174.0	180.0	191.2	191.5	190.2
65°	155.3	159.8	171.1	170.9	170.0
67.5°	135.6	141.1	149.5	149.8	149.1
70°	117.3	121.1	129.2	129.3	127.6
72.5°	97.6	101.6	108.1	107.2	106.8
75°	78.4	81.5	86.6	87.2	85.7
77.5°	60.8	63.1	66.8	66.4	64.8
80°	42.7	44.6	47.3	46.8	45.0
82.5°	27.3	28.4	30.2	29.4	28.7
85°	14.9	15.0	15.1	15.0	14.6
87.5°	5.5	5.6	5.6	5.5	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)