

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: P488504

Luminaire Tested: **CLM-12-2-INS-P12125-LD4-2HI-50-120-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: P488504
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-12-2-INS-P12125-LD4-2HI-50-120-EDD-90
Description: 1X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

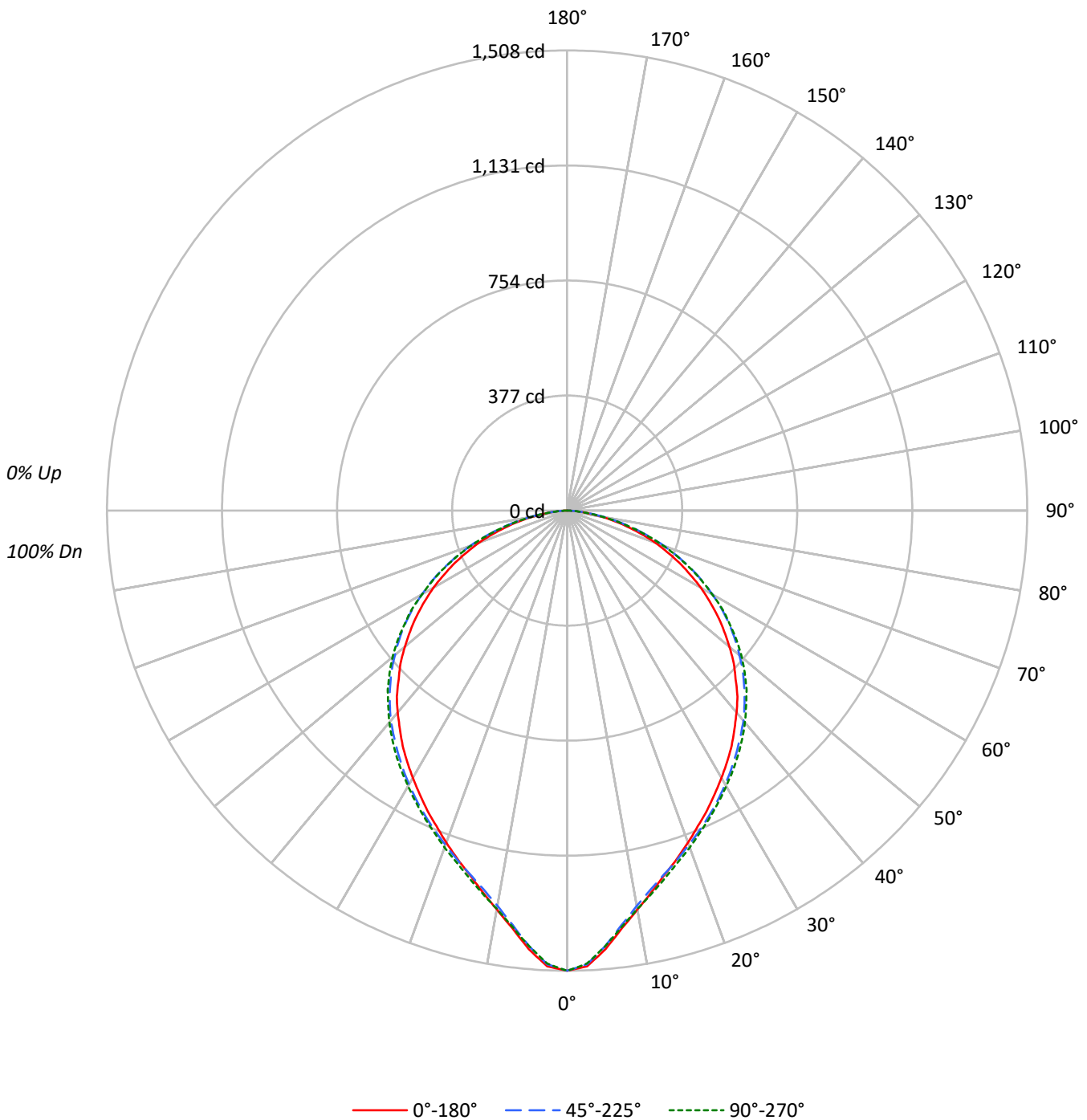
Lumens per Lamp: N/A
Luminaire Lumens: 3502.6 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8115	8115	8115
5°	7793	7737	7737
10°	7253	7186	7242
15°	6882	6869	6936
20°	6629	6677	6729
25°	6440	6545	6583
30°	6285	6440	6479
35°	6177	6357	6422
40°	6067	6314	6367
45°	5942	6252	6326
50°	5812	6174	6256
55°	5650	6084	6109
60°	5447	5917	5905
65°	5163	5691	5652
70°	4820	5306	5242
75°	4255	4702	4654
80°	3456	3831	3642
85°	2396	2445	2347



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	3.8
10°-20°	349.0	10.0
20°-30°	507.5	14.5
30°-40°	603.9	17.2
40°-50°	627.1	17.9
50°-60°	568.1	16.2
60°-70°	428.7	12.2
70°-80°	233.6	6.7
80°-90°	51.3	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°	989.8	28.3
0°-40°	1593.7	45.5
0°-60°	2789.0	79.6
0°-90°	3502.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3502.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1508	1508	1508	1508	1508	
5°	1442	1439	1432	1431	1432	134
15°	1235	1232	1233	1241	1245	349
25°	1084	1093	1102	1111	1108	500
35°	940	951	968	982	977	588
45°	781	795	821	830	831	603
55°	602	616	648	653	651	538
65°	405	417	447	446	444	401
75°	205	213	226	228	224	218
85°	39	39	40	39	38	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1507.9	1507.9	1507.9	1507.9	1507.9
2.5°	1494.7	1493.2	1488.3	1486.4	1486.0
5°	1442.4	1439.0	1432.2	1431.4	1432.2
7.5°	1379.8	1376.0	1369.3	1371.9	1375.3
10°	1327.1	1317.6	1315.0	1318.8	1325.2
12.5°	1279.9	1272.4	1270.1	1279.9	1284.5
15°	1235.1	1232.1	1232.9	1241.2	1244.9
17.5°	1196.3	1194.4	1199.3	1205.7	1207.6
20°	1157.5	1161.3	1165.8	1172.6	1174.8
22.5°	1119.5	1126.6	1134.2	1143.2	1140.2
25°	1084.4	1093.4	1102.1	1111.2	1108.5
27.5°	1047.1	1057.6	1069.7	1079.5	1075.7
30°	1011.3	1024.5	1036.2	1048.2	1042.6
32.5°	975.9	988.3	1002.3	1017.0	1010.6
35°	940.1	951.4	967.6	982.3	977.4
37.5°	900.5	914.5	932.9	945.7	942.4
40°	863.6	876.4	898.7	906.9	906.2
42.5°	826.3	836.9	860.2	869.6	868.1
45°	780.7	794.7	821.4	830.5	831.2
47.5°	740.4	752.1	780.7	787.9	789.4
50°	694.1	708.8	737.4	746.0	747.2
52.5°	648.4	664.3	693.7	699.7	700.8
55°	602.1	616.4	648.4	653.0	651.1
57.5°	553.5	570.8	600.2	602.5	604.4
60°	506.0	521.1	549.7	552.7	548.6
62.5°	454.4	469.9	499.3	500.0	496.6
65°	405.4	417.1	446.9	446.1	443.8
67.5°	354.2	368.5	390.4	391.1	389.2
70°	306.3	316.1	337.2	337.6	333.1
72.5°	254.7	265.3	282.2	280.0	278.8
75°	204.6	212.9	226.1	227.6	223.8
77.5°	158.6	164.7	174.5	173.3	169.2
80°	111.5	116.4	123.6	122.1	117.5
82.5°	71.2	74.2	78.8	76.9	75.0
85°	38.8	39.2	39.6	39.2	38.0
87.5°	14.3	14.7	14.7	14.3	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)