

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: P489255

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2HI-30-120-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: P489255
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-LD4-2HI-30-120-EDD
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

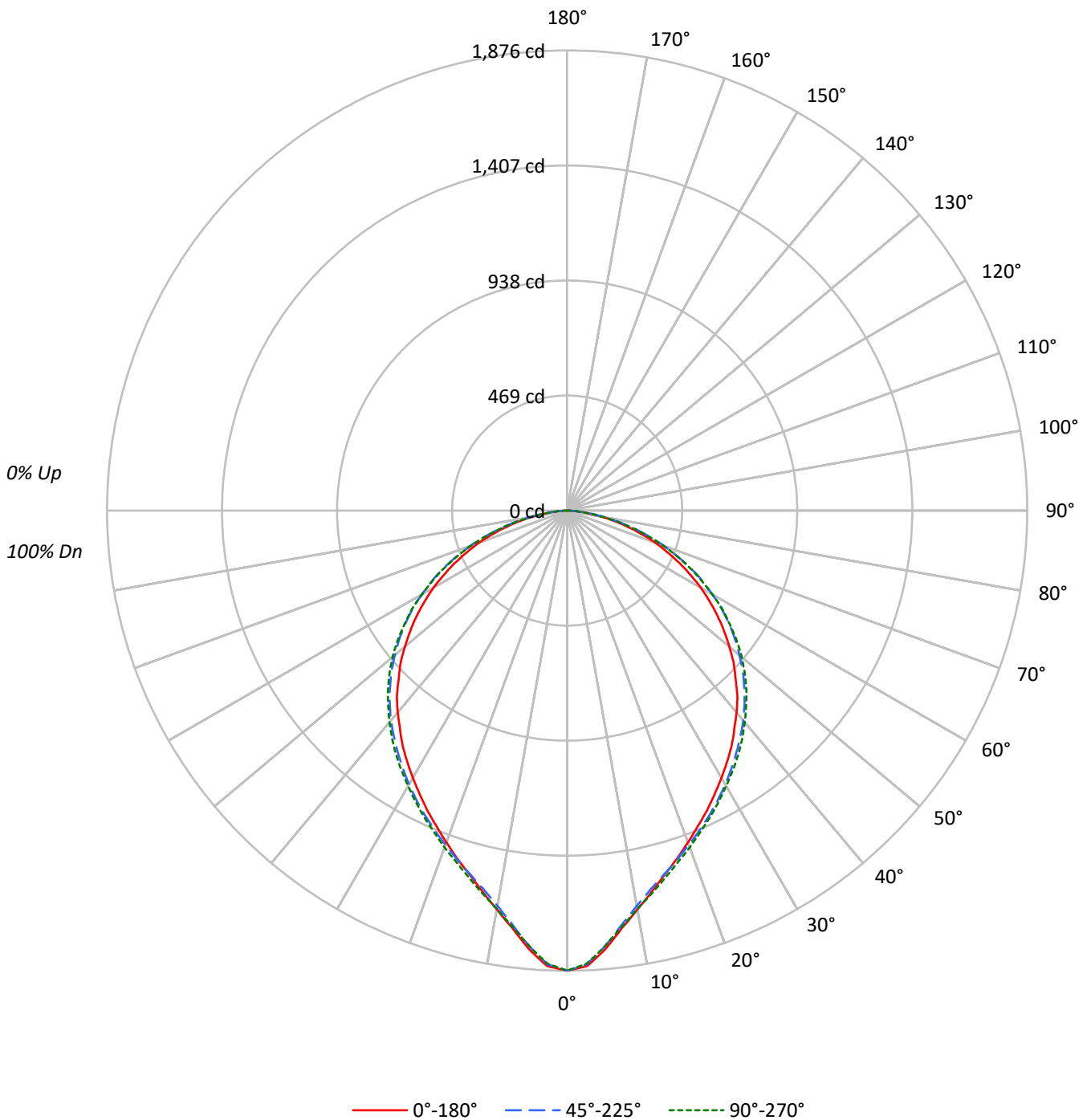
Lumens per Lamp: N/A
Luminaire Lumens: 4356.3 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5047	5047	5047
5°	4846	4811	4811
10°	4510	4469	4504
15°	4279	4272	4313
20°	4123	4152	4184
25°	4005	4070	4094
30°	3908	4004	4029
35°	3841	3953	3993
40°	3773	3926	3959
45°	3695	3888	3934
50°	3614	3839	3890
55°	3514	3784	3799
60°	3387	3680	3672
65°	3210	3539	3515
70°	2998	3300	3260
75°	2646	2924	2895
80°	2149	2382	2266
85°	1491	1519	1460



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	3.8
10°-20°	434.1	10.0
20°-30°	631.2	14.5
30°-40°	751.1	17.2
40°-50°	780.0	17.9
50°-60°	706.6	16.2
60°-70°	533.2	12.2
70°-80°	290.5	6.7
80°-90°	63.8	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°	1231.0	28.3
0°-40°	1982.2	45.5
0°-60°	3468.7	79.6
0°-90°	4356.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4356.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1876	1876	1876	1876	1876	
5°	1794	1790	1781	1780	1781	166
15°	1536	1532	1533	1544	1548	434
25°	1349	1360	1371	1382	1379	621
35°	1169	1183	1203	1222	1216	731
45°	971	988	1022	1033	1034	751
55°	749	767	806	812	810	669
65°	504	519	556	555	552	498
75°	254	265	281	283	278	271
85°	48	49	49	49	47	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1875.5	1875.5	1875.5	1875.5	1875.5
2.5°	1859.0	1857.2	1851.1	1848.7	1848.2
5°	1793.9	1789.7	1781.2	1780.3	1781.2
7.5°	1716.1	1711.4	1703.0	1706.3	1710.5
10°	1650.5	1638.8	1635.5	1640.2	1648.2
12.5°	1591.9	1582.6	1579.7	1591.9	1597.6
15°	1536.1	1532.4	1533.4	1543.7	1548.3
17.5°	1487.9	1485.6	1491.6	1499.6	1502.0
20°	1439.6	1444.3	1449.9	1458.4	1461.2
22.5°	1392.3	1401.2	1410.6	1421.8	1418.1
25°	1348.7	1360.0	1370.8	1382.0	1378.7
27.5°	1302.3	1315.4	1330.4	1342.6	1337.9
30°	1257.8	1274.2	1288.7	1303.7	1296.7
32.5°	1213.8	1229.2	1246.5	1264.8	1256.9
35°	1169.2	1183.3	1203.4	1221.7	1215.6
37.5°	1120.0	1137.4	1160.3	1176.2	1172.1
40°	1074.1	1090.0	1117.7	1128.0	1127.0
42.5°	1027.7	1040.8	1069.9	1081.6	1079.7
45°	971.0	988.3	1021.6	1032.9	1033.8
47.5°	920.9	935.4	971.0	979.9	981.8
50°	863.2	881.5	917.1	927.9	929.3
52.5°	806.5	826.2	862.7	870.2	871.7
55°	748.9	766.7	806.5	812.1	809.8
57.5°	688.4	710.0	746.5	749.3	751.7
60°	629.3	648.1	683.7	687.5	682.3
62.5°	565.2	584.4	620.9	621.9	617.6
65°	504.2	518.8	555.8	554.9	552.0
67.5°	440.5	458.3	485.5	486.4	484.1
70°	381.0	393.2	419.4	419.9	414.3
72.5°	316.8	329.9	351.0	348.2	346.8
75°	254.5	264.8	281.2	283.1	278.4
77.5°	197.3	204.8	217.0	215.6	210.4
80°	138.7	144.8	153.7	151.8	146.2
82.5°	88.6	92.3	98.0	95.6	93.3
85°	48.3	48.7	49.2	48.7	47.3
87.5°	17.8	18.3	18.3	17.8	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)