

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: P489222

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-1HI-40-120-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: P489222
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-LD4-1HI-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

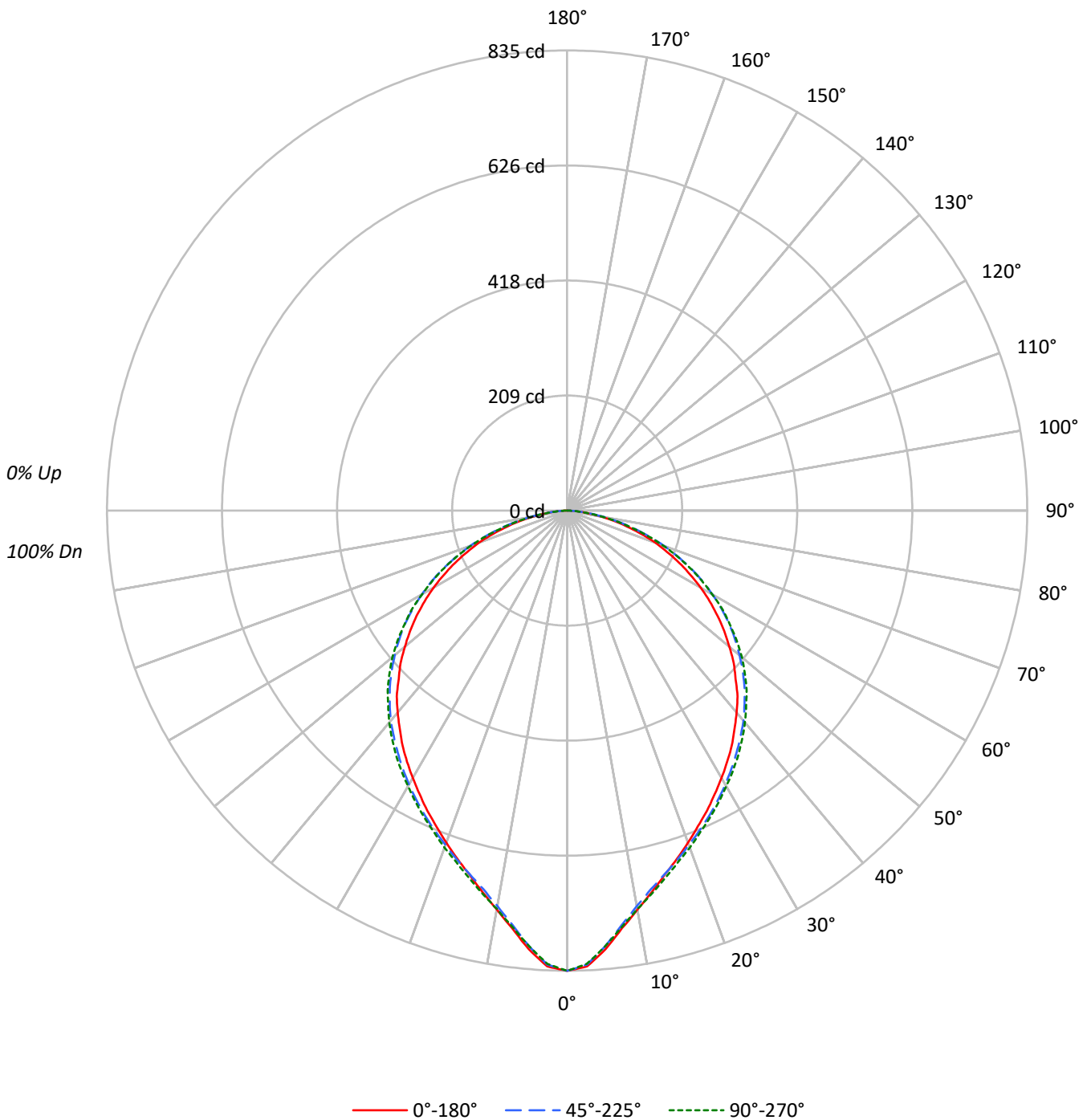
Lumens per Lamp: N/A
Luminaire Lumens: 1940.1 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	2248	2248	2248
5°	2158	2143	2143
10°	2009	1990	2006
15°	1906	1902	1921
20°	1836	1849	1863
25°	1784	1813	1823
30°	1741	1783	1794
35°	1711	1761	1779
40°	1681	1749	1763
45°	1646	1732	1752
50°	1609	1710	1733
55°	1565	1685	1692
60°	1509	1639	1636
65°	1430	1576	1565
70°	1335	1470	1452
75°	1178	1302	1289
80°	958	1062	1009
85°	664	676	651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.8	3.8
10°-20°	193.3	10.0
20°-30°	281.1	14.5
30°-40°	334.5	17.2
40°-50°	347.4	17.9
50°-60°	314.7	16.2
60°-70°	237.5	12.2
70°-80°	129.4	6.7
80°-90°	28.4	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°	548.2	28.3
0°-40°	882.8	45.5
0°-60°	1544.8	79.6
0°-90°	1940.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1940.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	835	835	835	835	835	
5°	799	797	793	793	793	74
15°	684	682	683	688	690	193
25°	601	606	610	616	614	277
35°	521	527	536	544	541	326
45°	432	440	455	460	460	334
55°	334	341	359	362	361	298
65°	225	231	248	247	246	222
75°	113	118	125	126	124	121
85°	22	22	22	22	21	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	835.2	835.2	835.2	835.2	835.2
2.5°	827.9	827.1	824.4	823.3	823.1
5°	798.9	797.0	793.3	792.9	793.3
7.5°	764.3	762.2	758.4	759.9	761.8
10°	735.1	729.8	728.4	730.5	734.0
12.5°	709.0	704.8	703.5	709.0	711.5
15°	684.1	682.5	682.9	687.5	689.6
17.5°	662.6	661.6	664.3	667.9	668.9
20°	641.1	643.2	645.7	649.5	650.7
22.5°	620.1	624.0	628.2	633.2	631.5
25°	600.7	605.7	610.5	615.5	614.0
27.5°	580.0	585.8	592.5	597.9	595.9
30°	560.2	567.5	573.9	580.6	577.5
32.5°	540.6	547.4	555.2	563.3	559.8
35°	520.7	527.0	536.0	544.1	541.4
37.5°	498.8	506.5	516.7	523.8	522.0
40°	478.4	485.5	497.8	502.4	501.9
42.5°	457.7	463.5	476.5	481.7	480.9
45°	432.4	440.2	455.0	460.0	460.4
47.5°	410.1	416.6	432.4	436.4	437.2
50°	384.4	392.6	408.4	413.2	413.9
52.5°	359.2	367.9	384.2	387.6	388.2
55°	333.5	341.4	359.2	361.7	360.6
57.5°	306.6	316.2	332.5	333.7	334.8
60°	280.3	288.6	304.5	306.2	303.9
62.5°	251.7	260.3	276.5	276.9	275.1
65°	224.6	231.0	247.5	247.1	245.8
67.5°	196.2	204.1	216.2	216.6	215.6
70°	169.7	175.1	186.8	187.0	184.5
72.5°	141.1	146.9	156.3	155.1	154.4
75°	113.3	117.9	125.2	126.1	124.0
77.5°	87.9	91.2	96.6	96.0	93.7
80°	61.8	64.5	68.5	67.6	65.1
82.5°	39.4	41.1	43.6	42.6	41.5
85°	21.5	21.7	21.9	21.7	21.1
87.5°	7.9	8.1	8.1	7.9	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)