

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: P489270

Luminaire Tested: **CLM-24-2-INS-P12125-LD4-2LO-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: P489270
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-LD4-2LO-40-120-EDD-90
Description: 2X2 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

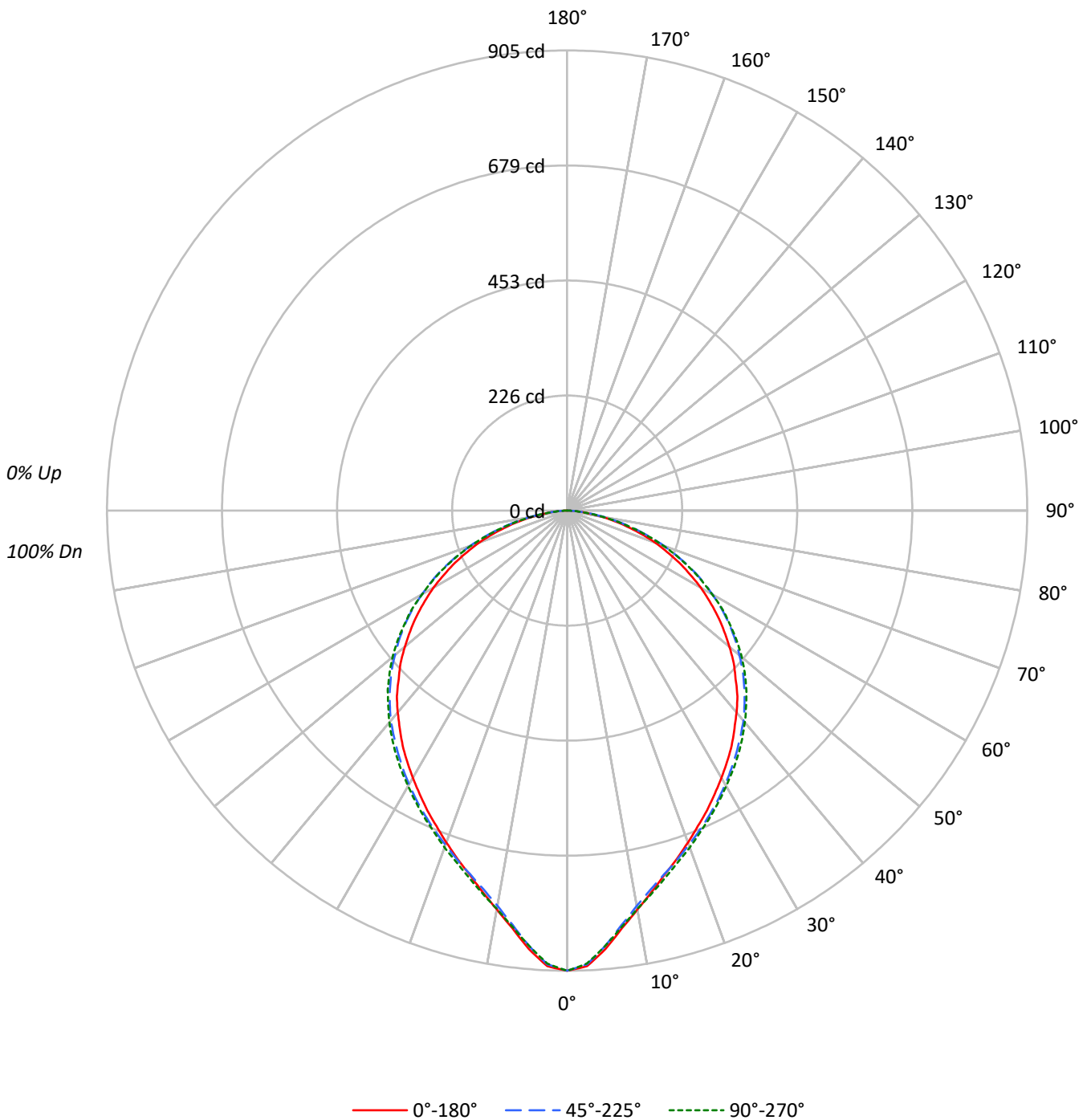
Lumens per Lamp: N/A
Luminaire Lumens: 2101.8 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	2435	2435	2435
5°	2338	2321	2321
10°	2176	2156	2173
15°	2065	2061	2081
20°	1989	2003	2019
25°	1932	1964	1975
30°	1885	1932	1944
35°	1853	1907	1927
40°	1820	1894	1910
45°	1783	1876	1898
50°	1744	1852	1877
55°	1695	1825	1833
60°	1634	1776	1772
65°	1549	1707	1696
70°	1446	1592	1573
75°	1277	1411	1396
80°	1037	1150	1093
85°	719	732	704



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	3.8
10°-20°	209.4	10.0
20°-30°	304.6	14.5
30°-40°	362.4	17.2
40°-50°	376.3	17.9
50°-60°	340.9	16.2
60°-70°	257.2	12.2
70°-80°	140.2	6.7
80°-90°	30.8	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°	593.9	28.3
0°-40°	956.4	45.5
0°-60°	1673.6	79.6
0°-90°	2101.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2101.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	866	864	859	859	859	80
15°	741	739	740	745	747	209
25°	651	656	661	667	665	300
35°	564	571	581	590	586	353
45°	468	477	493	498	499	362
55°	361	370	389	392	391	323
65°	243	250	268	268	266	240
75°	123	128	136	137	134	131
85°	23	24	24	24	23	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.9	904.9	904.9	904.9	904.9
2.5°	896.9	896.0	893.1	892.0	891.7
5°	865.5	863.5	859.4	859.0	859.4
7.5°	828.0	825.7	821.7	823.2	825.3
10°	796.3	790.7	789.1	791.3	795.2
12.5°	768.1	763.5	762.2	768.1	770.8
15°	741.1	739.3	739.8	744.8	747.0
17.5°	717.9	716.7	719.7	723.5	724.7
20°	694.6	696.8	699.6	703.6	705.0
22.5°	671.7	676.0	680.6	686.0	684.2
25°	650.7	656.1	661.4	666.8	665.2
27.5°	628.3	634.7	641.9	647.8	645.5
30°	606.8	614.8	621.8	629.0	625.6
32.5°	585.6	593.1	601.4	610.2	606.4
35°	564.1	570.9	580.6	589.5	586.5
37.5°	540.4	548.7	559.8	567.5	565.5
40°	518.2	525.9	539.3	544.2	543.8
42.5°	495.8	502.2	516.2	521.8	520.9
45°	468.5	476.8	492.9	498.3	498.8
47.5°	444.3	451.3	468.5	472.8	473.7
50°	416.5	425.3	442.5	447.7	448.4
52.5°	389.1	398.6	416.2	419.9	420.6
55°	361.3	369.9	389.1	391.8	390.7
57.5°	332.1	342.5	360.2	361.5	362.7
60°	303.6	312.7	329.9	331.7	329.2
62.5°	272.7	281.9	299.6	300.0	298.0
65°	243.3	250.3	268.1	267.7	266.3
67.5°	212.5	221.1	234.2	234.7	233.6
70°	183.8	189.7	202.4	202.6	199.9
72.5°	152.9	159.2	169.3	168.0	167.3
75°	122.8	127.7	135.7	136.6	134.3
77.5°	95.2	98.8	104.7	104.0	101.5
80°	66.9	69.9	74.2	73.3	70.5
82.5°	42.7	44.6	47.3	46.1	45.0
85°	23.3	23.5	23.7	23.5	22.8
87.5°	8.6	8.8	8.8	8.6	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)