

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: P488814

Luminaire Tested: **CLM-12-4-INS-P12125-LD4-2STD-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: P488814
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-12-4-INS-P12125-LD4-2STD-40-120-EDD-90
Description: 1X4 CLM LED LUMINAIRE WITH P12125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

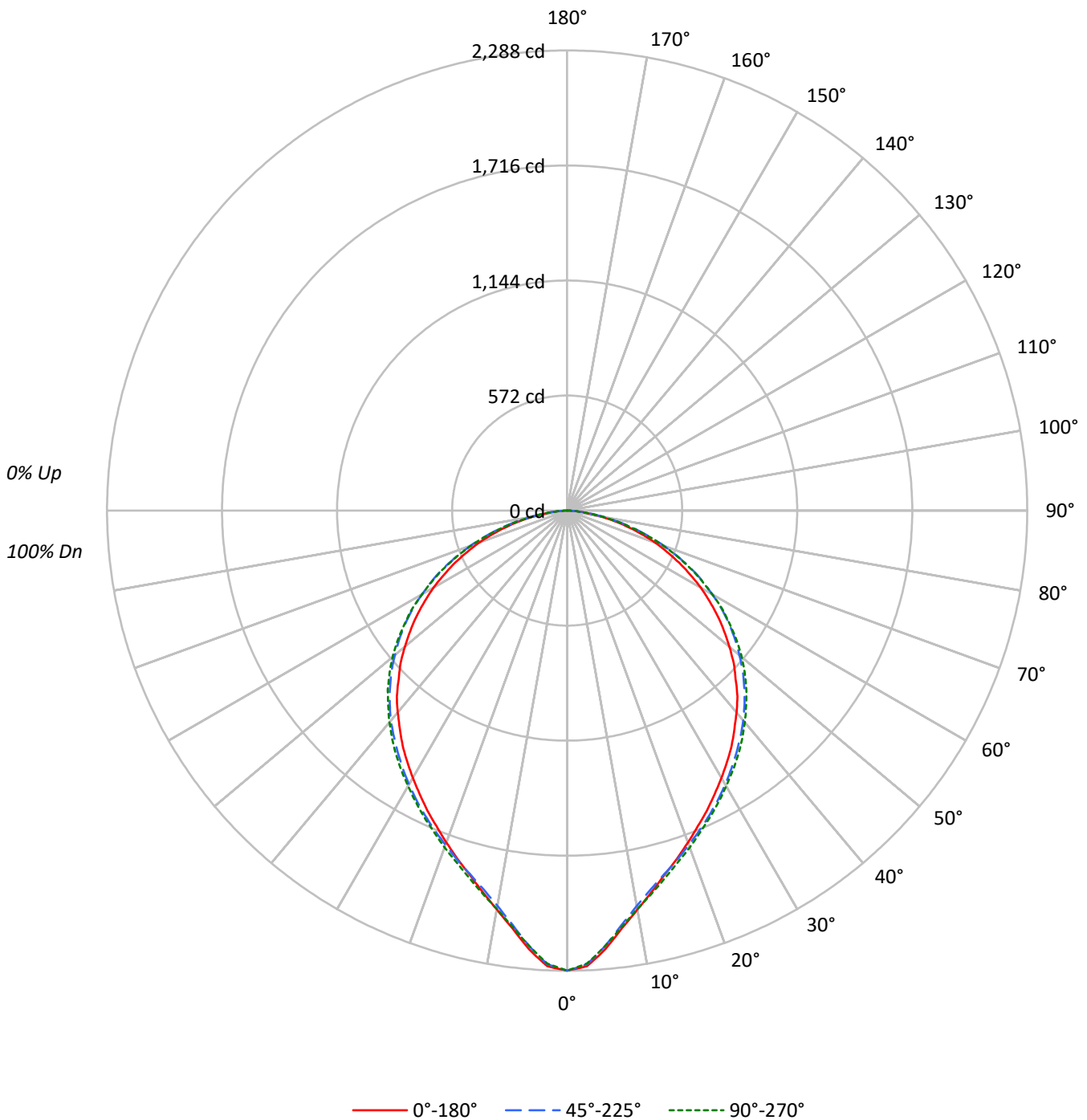
Lumens per Lamp: N/A
Luminaire Lumens: 5313.7 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.01 / 1.04 / 1.24
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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	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					100			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84					84			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70					70			
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59					59			
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51					51			
5	76	63	54	48	74	62	54	48	60	53	47	58	52	46	56	51	46	44					44			
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38					38			
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34					34			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30					30			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27					27			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6156	6156	6156
5°	5911	5869	5869
10°	5501	5451	5493
15°	5220	5210	5261
20°	5029	5065	5104
25°	4885	4964	4993
30°	4767	4885	4915
35°	4685	4822	4871
40°	4603	4789	4829
45°	4507	4742	4799
50°	4408	4683	4745
55°	4285	4615	4634
60°	4132	4489	4479
65°	3916	4316	4288
70°	3656	4025	3976
75°	3227	3566	3530
80°	2622	2906	2763
85°	1819	1853	1782



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	3.8
10°-20°	529.5	10.0
20°-30°	770.0	14.5
30°-40°	916.2	17.2
40°-50°	951.4	17.9
50°-60°	861.9	16.2
60°-70°	650.4	12.2
70°-80°	354.4	6.7
80°-90°	77.9	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°	1501.6	28.3
0°-40°	2417.8	45.5
0°-60°	4231.1	79.6
0°-90°	5313.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5313.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2188	2183	2173	2172	2173	203
15°	1874	1869	1870	1883	1889	529
25°	1645	1659	1672	1686	1682	758
35°	1426	1443	1468	1490	1483	892
45°	1184	1206	1246	1260	1261	916
55°	913	935	984	991	988	816
65°	615	633	678	677	673	608
75°	310	323	343	345	340	331
85°	59	59	60	59	58	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2287.6	2287.6	2287.6	2287.6	2287.6
2.5°	2267.6	2265.3	2257.9	2255.0	2254.4
5°	2188.2	2183.0	2172.7	2171.6	2172.7
7.5°	2093.3	2087.5	2077.3	2081.3	2086.4
10°	2013.2	1999.0	1994.9	2000.7	2010.4
12.5°	1941.8	1930.4	1926.9	1941.8	1948.7
15°	1873.7	1869.2	1870.3	1882.9	1888.6
17.5°	1814.9	1812.0	1819.5	1829.2	1832.1
20°	1756.0	1761.8	1768.6	1778.9	1782.3
22.5°	1698.3	1709.1	1720.6	1734.3	1729.7
25°	1645.1	1658.8	1672.0	1685.7	1681.7
27.5°	1588.5	1604.5	1622.8	1637.7	1632.0
30°	1534.2	1554.2	1572.0	1590.2	1581.7
32.5°	1480.5	1499.4	1520.5	1542.8	1533.1
35°	1426.2	1443.3	1467.9	1490.2	1482.8
37.5°	1366.2	1387.3	1415.3	1434.7	1429.6
40°	1310.2	1329.6	1363.3	1375.9	1374.7
42.5°	1253.6	1269.6	1305.0	1319.3	1317.0
45°	1184.4	1205.5	1246.1	1259.9	1261.0
47.5°	1123.2	1141.0	1184.4	1195.2	1197.5
50°	1052.9	1075.2	1118.7	1131.8	1133.5
52.5°	983.7	1007.7	1052.3	1061.5	1063.2
55°	913.4	935.1	983.7	990.6	987.8
57.5°	839.7	866.0	910.6	914.0	916.9
60°	767.7	790.5	834.0	838.6	832.3
62.5°	689.4	712.8	757.4	758.5	753.4
65°	615.0	632.8	677.9	676.8	673.4
67.5°	537.3	559.0	592.2	593.3	590.5
70°	464.7	479.6	511.6	512.2	505.3
72.5°	386.4	402.4	428.1	424.7	423.0
75°	310.4	323.0	343.0	345.3	339.5
77.5°	240.7	249.8	264.7	263.0	256.6
80°	169.2	176.6	187.5	185.2	178.3
82.5°	108.0	112.6	119.5	116.6	113.7
85°	58.9	59.4	60.0	59.4	57.7
87.5°	21.7	22.3	22.3	21.7	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)