

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: P490295

Luminaire Tested: **CLP-12-4-INS-A19156-LD4-2HI-20-120-EDD**

Issue Date: 3/12/2021

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: P490295
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-115-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/12/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: CLP-12-4-INS-A19156-LD4-2HI-20-120-EDD
Description: 1X4 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

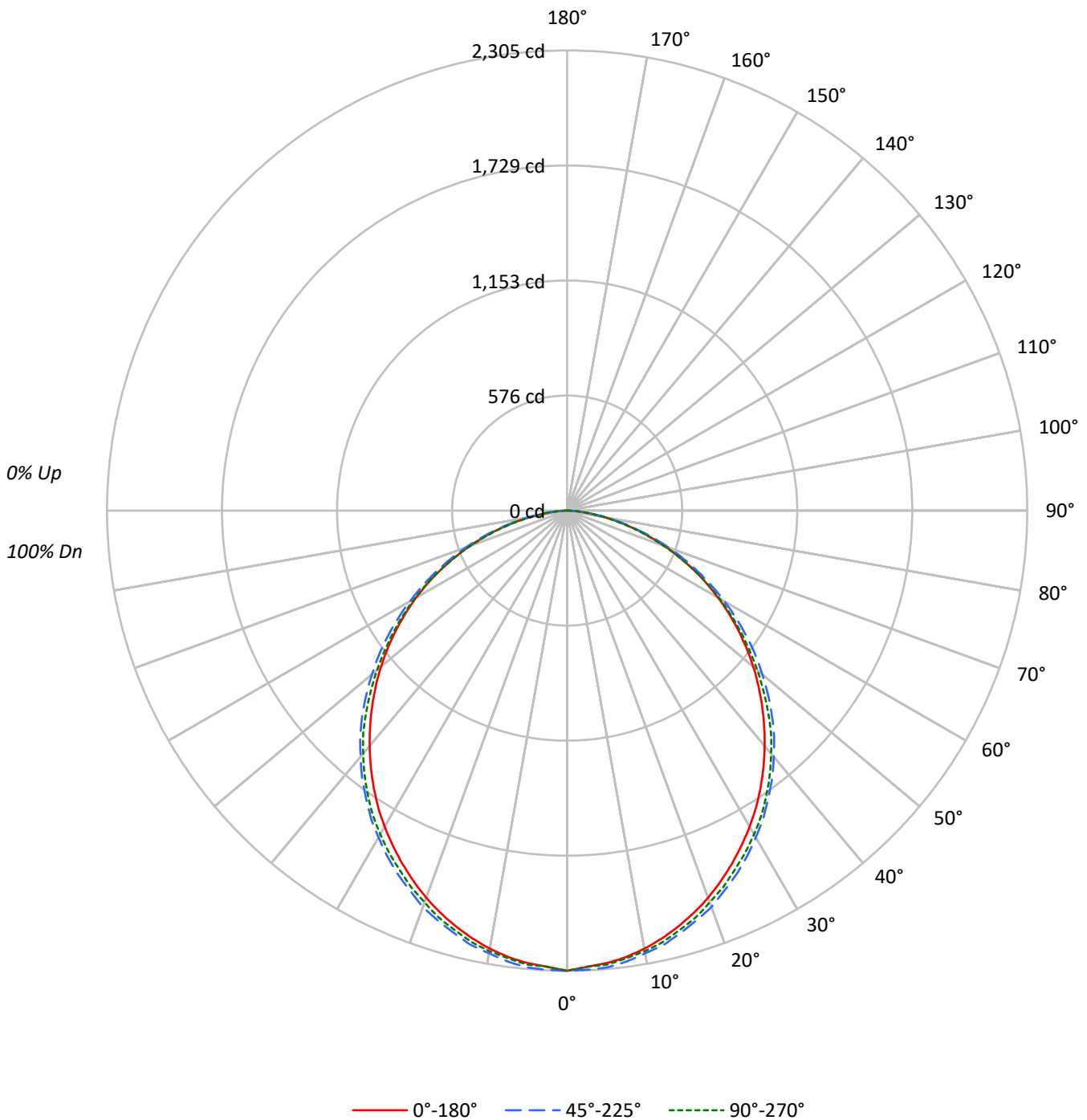
Lumens per Lamp: N/A
Luminaire Lumens: 6061.1 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6204	6204	6204
5°	6146	6204	6166
10°	6090	6152	6122
15°	6006	6103	6060
20°	5911	6052	5979
25°	5796	5964	5896
30°	5679	5872	5818
35°	5551	5771	5718
40°	5407	5656	5584
45°	5255	5520	5416
50°	5097	5344	5204
55°	4912	5142	4984
60°	4703	4898	4747
65°	4432	4602	4436
70°	4078	4242	4033
75°	3591	3753	3536
80°	2918	3045	2885
85°	2032	2164	2115



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.1	3.6
10°-20°	615.3	10.2
20°-30°	917.7	15.1
30°-40°	1087.4	17.9
40°-50°	1100.3	18.2
50°-60°	961.0	15.9
60°-70°	702.2	11.6
70°-80°	373.7	6.2
80°-90°	86.4	1.4
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°	1750.1	28.9
0°-40°	2837.5	46.8
0°-60°	4898.9	80.8
0°-90°	6061.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6061.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2305	2305	2305	2305	2305	
5°	2275	2280	2297	2302	2283	216
15°	2156	2170	2191	2204	2175	608
25°	1952	1976	2009	2016	1986	899
35°	1690	1716	1757	1769	1740	1057
45°	1381	1405	1451	1452	1423	1065
55°	1047	1068	1096	1080	1062	936
65°	696	710	723	708	697	689
75°	345	353	361	348	340	367
85°	66	67	70	71	68	83
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2305.4	2305.4	2305.4	2305.4	2305.4
2.5°	2287.4	2294.9	2302.5	2305.9	2287.2
5°	2275.4	2279.7	2296.8	2302.1	2282.6
7.5°	2255.7	2262.2	2278.8	2281.2	2262.4
10°	2228.8	2240.3	2251.4	2263.4	2240.6
12.5°	2194.5	2210.1	2228.8	2231.0	2213.7
15°	2155.8	2170.2	2190.6	2203.8	2175.2
17.5°	2112.5	2126.5	2152.9	2155.3	2138.0
20°	2064.3	2081.6	2113.3	2118.8	2087.8
22.5°	2009.5	2032.8	2059.2	2064.5	2041.7
25°	1952.1	1976.1	2008.8	2016.2	1985.7
27.5°	1892.0	1915.1	1951.9	1957.1	1931.4
30°	1827.7	1849.3	1889.6	1898.5	1872.3
32.5°	1762.3	1784.0	1828.6	1836.1	1810.6
35°	1689.8	1716.2	1756.8	1769.1	1740.5
37.5°	1615.8	1641.5	1687.6	1698.7	1667.9
40°	1539.2	1564.7	1610.1	1619.2	1589.6
42.5°	1460.9	1486.3	1534.9	1536.3	1511.8
45°	1380.9	1405.4	1450.6	1451.8	1423.2
47.5°	1299.7	1324.5	1364.8	1360.2	1333.3
50°	1217.6	1241.1	1276.4	1267.3	1243.0
52.5°	1132.5	1155.4	1188.7	1173.9	1151.0
55°	1047.0	1068.2	1096.0	1080.2	1062.4
57.5°	960.8	982.2	1003.6	987.5	972.1
60°	873.8	892.6	910.1	893.8	882.0
62.5°	785.4	801.5	816.7	801.1	790.0
65°	696.1	710.3	722.8	708.3	696.6
67.5°	607.2	619.2	630.8	615.9	603.6
70°	518.3	528.7	539.2	523.9	512.6
72.5°	430.7	439.8	449.2	434.3	424.4
75°	345.4	353.3	361.0	347.8	340.1
77.5°	264.0	270.7	276.0	267.6	260.1
80°	188.3	193.4	196.5	193.1	186.2
82.5°	121.1	124.7	126.3	126.1	121.5
85°	65.8	67.0	70.1	70.9	68.5
87.5°	25.5	27.1	27.9	30.0	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)