

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: P490051

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-40-120-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: P490051
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-12-2-INS-A19156-LD4-2HI-40-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

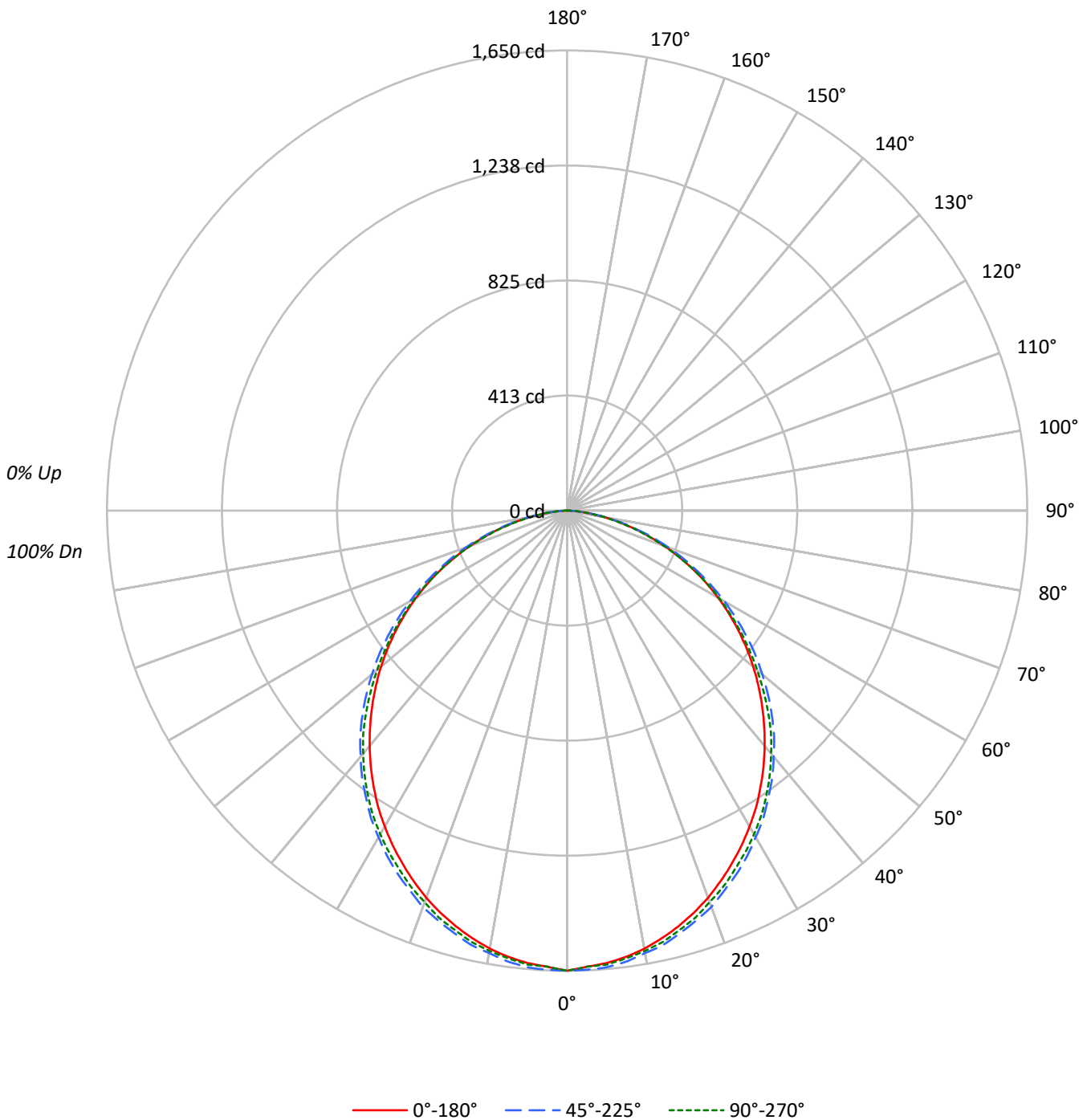
Lumens per Lamp: N/A
Luminaire Lumens: 4337.9 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P490051

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-2HI-40-120-EDD

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°	8880	8880	8880
5°	8798	8881	8826
10°	8717	8806	8764
15°	8597	8735	8674
20°	8462	8663	8558
25°	8296	8538	8440
30°	8129	8405	8327
35°	7946	8261	8184
40°	7739	8096	7993
45°	7522	7902	7753
50°	7296	7649	7448
55°	7032	7360	7135
60°	6732	7012	6794
65°	6344	6588	6348
70°	5838	6072	5773
75°	5140	5373	5061
80°	4178	4358	4128
85°	2908	3100	3026



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	3.6
10°-20°	440.4	10.2
20°-30°	656.8	15.1
30°-40°	778.3	17.9
40°-50°	787.5	18.2
50°-60°	687.8	15.9
60°-70°	502.6	11.6
70°-80°	267.4	6.2
80°-90°	61.8	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°	1252.5	28.9
0°-40°	2030.8	46.8
0°-60°	3506.1	80.8
0°-90°	4337.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4337.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1628	1632	1644	1648	1634	154
15°	1543	1553	1568	1577	1557	435
25°	1397	1414	1438	1443	1421	644
35°	1209	1228	1257	1266	1246	756
45°	988	1006	1038	1039	1019	762
55°	749	764	784	773	760	670
65°	498	508	517	507	498	493
75°	247	253	258	249	243	263
85°	47	48	50	51	49	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1650.0	1650.0	1650.0	1650.0	1650.0
2.5°	1637.1	1642.4	1647.9	1650.3	1636.9
5°	1628.5	1631.6	1643.8	1647.6	1633.7
7.5°	1614.4	1619.0	1630.9	1632.6	1619.2
10°	1595.1	1603.4	1611.3	1619.9	1603.6
12.5°	1570.6	1581.7	1595.1	1596.7	1584.3
15°	1542.9	1553.2	1567.8	1577.3	1556.8
17.5°	1511.9	1521.9	1540.8	1542.5	1530.2
20°	1477.4	1489.8	1512.5	1516.4	1494.2
22.5°	1438.2	1454.9	1473.8	1477.6	1461.2
25°	1397.1	1414.3	1437.7	1443.0	1421.2
27.5°	1354.1	1370.6	1396.9	1400.7	1382.3
30°	1308.1	1323.5	1352.4	1358.8	1340.0
32.5°	1261.3	1276.8	1308.7	1314.1	1295.9
35°	1209.4	1228.3	1257.3	1266.1	1245.7
37.5°	1156.4	1174.8	1207.8	1215.7	1193.7
40°	1101.6	1119.8	1152.3	1158.8	1137.7
42.5°	1045.6	1063.8	1098.5	1099.5	1082.0
45°	988.3	1005.8	1038.2	1039.0	1018.6
47.5°	930.2	947.9	976.8	973.5	954.3
50°	871.4	888.3	913.5	907.0	889.6
52.5°	810.6	826.9	850.8	840.1	823.8
55°	749.4	764.5	784.4	773.1	760.4
57.5°	687.6	702.9	718.2	706.7	695.7
60°	625.4	638.8	651.4	639.7	631.2
62.5°	562.1	573.7	584.5	573.3	565.4
65°	498.2	508.3	517.3	507.0	498.5
67.5°	434.6	443.2	451.4	440.8	432.0
70°	371.0	378.4	385.9	374.9	366.9
72.5°	308.2	314.8	321.5	310.8	303.8
75°	247.2	252.9	258.4	248.9	243.4
77.5°	188.9	193.7	197.5	191.5	186.2
80°	134.8	138.4	140.6	138.2	133.2
82.5°	86.6	89.2	90.4	90.3	87.0
85°	47.1	48.0	50.2	50.7	49.0
87.5°	18.2	19.4	19.9	21.5	19.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)