

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: P490050

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2HI-40-120-EDD-90**

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: P490050
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-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

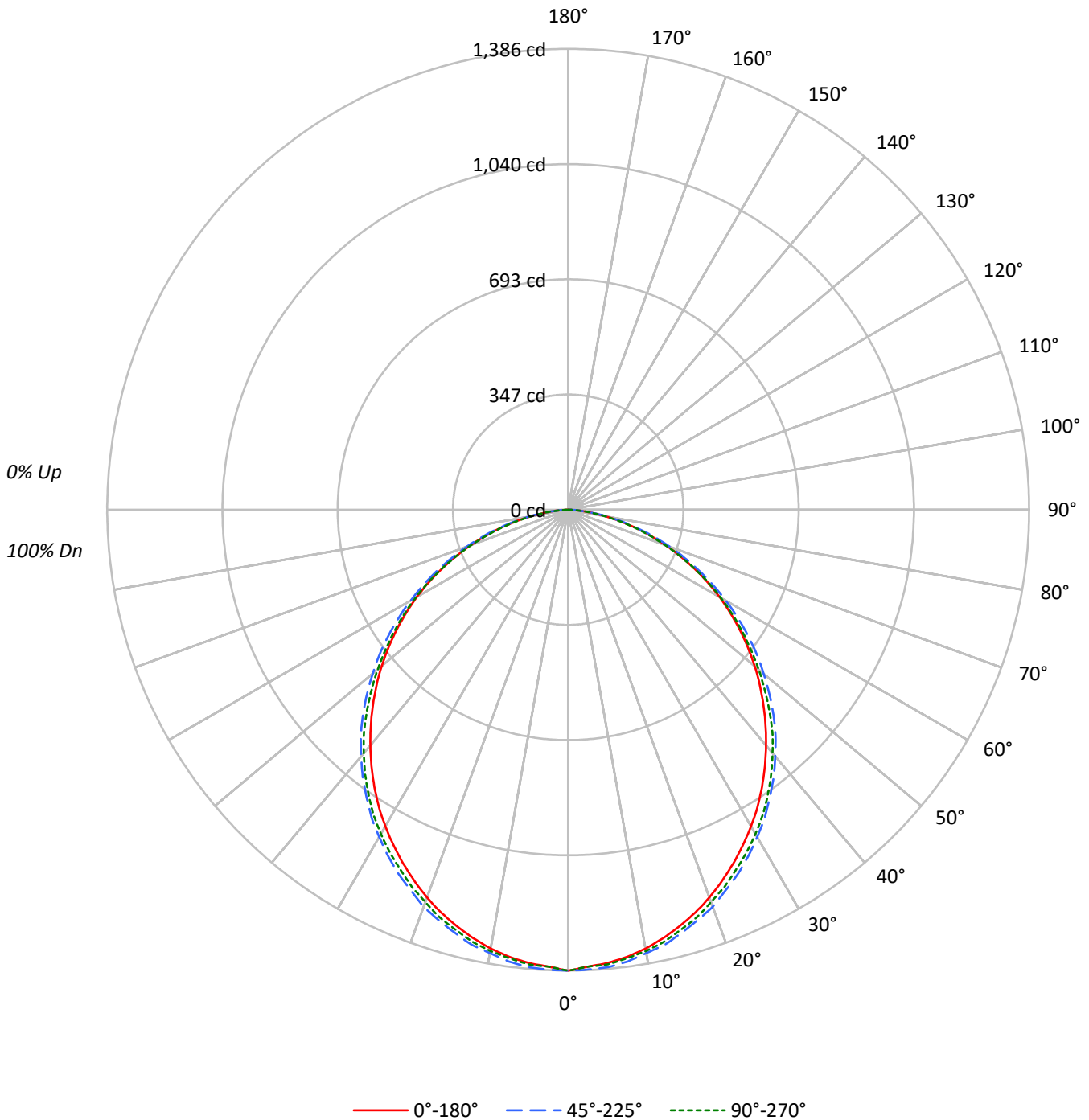
Lumens per Lamp: N/A
Luminaire Lumens: 3644.8 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	7462	7462	7462
5°	7392	7462	7415
10°	7325	7399	7364
15°	7223	7340	7288
20°	7109	7278	7191
25°	6971	7174	7091
30°	6830	7062	6997
35°	6676	6941	6876
40°	6503	6802	6716
45°	6320	6639	6514
50°	6131	6427	6259
55°	5908	6184	5995
60°	5656	5891	5709
65°	5331	5535	5335
70°	4905	5103	4850
75°	4319	4514	4252
80°	3508	3663	3468
85°	2445	2606	2544



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	3.6
10°-20°	370.0	10.2
20°-30°	551.8	15.1
30°-40°	653.9	17.9
40°-50°	661.7	18.2
50°-60°	577.9	15.9
60°-70°	422.3	11.6
70°-80°	224.7	6.2
80°-90°	51.9	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°	1052.4	28.9
0°-40°	1706.3	46.8
0°-60°	2945.9	80.8
0°-90°	3644.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3644.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1386	1386	1386	1386	1386	
5°	1368	1371	1381	1384	1373	130
15°	1296	1305	1317	1325	1308	365
25°	1174	1188	1208	1212	1194	541
35°	1016	1032	1056	1064	1047	635
45°	830	845	872	873	856	641
55°	630	642	659	650	639	563
65°	419	427	435	426	419	414
75°	208	212	217	209	204	221
85°	40	40	42	43	41	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1386.4	1386.4	1386.4	1386.4	1386.4
2.5°	1375.5	1380.0	1384.6	1386.6	1375.4
5°	1368.3	1370.9	1381.2	1384.3	1372.6
7.5°	1356.5	1360.4	1370.3	1371.8	1360.5
10°	1340.3	1347.2	1353.9	1361.1	1347.4
12.5°	1319.6	1329.0	1340.3	1341.6	1331.2
15°	1296.4	1305.0	1317.3	1325.3	1308.1
17.5°	1270.4	1278.7	1294.6	1296.1	1285.7
20°	1241.3	1251.7	1270.8	1274.1	1255.5
22.5°	1208.4	1222.4	1238.3	1241.5	1227.8
25°	1173.9	1188.3	1208.0	1212.4	1194.1
27.5°	1137.8	1151.6	1173.7	1176.9	1161.5
30°	1099.1	1112.1	1136.3	1141.7	1125.9
32.5°	1059.8	1072.8	1099.6	1104.1	1088.8
35°	1016.1	1032.0	1056.4	1063.8	1046.6
37.5°	971.7	987.1	1014.8	1021.5	1003.0
40°	925.6	940.9	968.2	973.7	955.9
42.5°	878.5	893.8	923.0	923.8	909.1
45°	830.4	845.1	872.3	873.0	855.8
47.5°	781.6	796.5	820.7	818.0	801.8
50°	732.2	746.3	767.6	762.1	747.5
52.5°	681.0	694.8	714.8	705.9	692.2
55°	629.6	642.3	659.1	649.6	638.9
57.5°	577.8	590.6	603.5	593.8	584.6
60°	525.5	536.7	547.3	537.5	530.4
62.5°	472.3	482.0	491.1	481.7	475.1
65°	418.6	427.1	434.6	426.0	418.9
67.5°	365.1	372.4	379.3	370.3	363.0
70°	311.7	317.9	324.3	315.0	308.2
72.5°	259.0	264.5	270.1	261.2	255.2
75°	207.7	212.5	217.1	209.2	204.5
77.5°	158.7	162.8	166.0	160.9	156.4
80°	113.2	116.3	118.2	116.1	111.9
82.5°	72.8	75.0	76.0	75.8	73.1
85°	39.6	40.3	42.2	42.6	41.2
87.5°	15.3	16.3	16.8	18.1	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)