

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: P490012

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-35-120-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: P490012
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-LD4-1HI-35-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

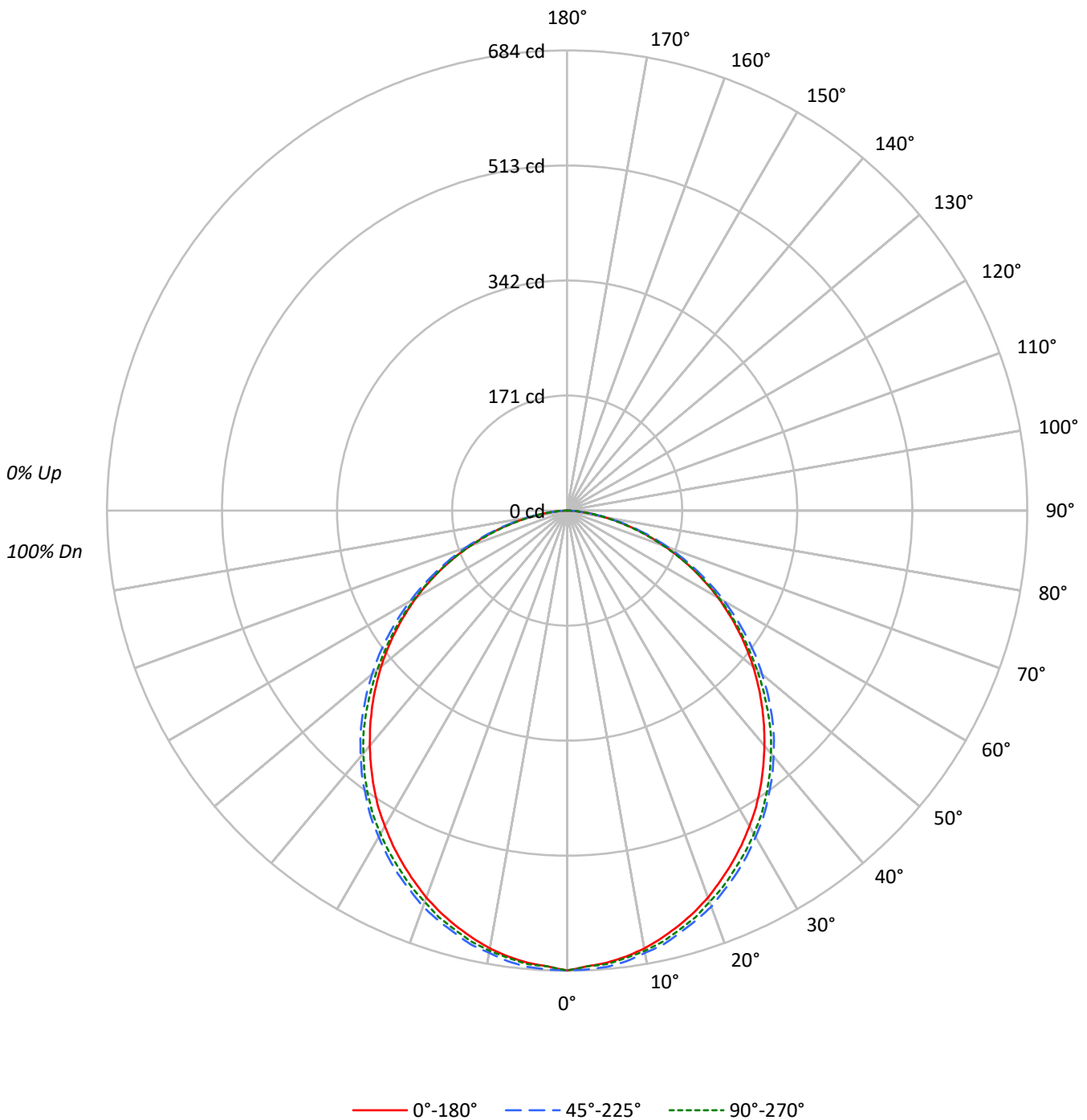
Lumens per Lamp: N/A
Luminaire Lumens: 1796.9 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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	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°	3679	3679	3679
5°	3645	3679	3656
10°	3611	3648	3630
15°	3561	3618	3593
20°	3505	3588	3545
25°	3437	3536	3496
30°	3367	3481	3450
35°	3292	3422	3390
40°	3206	3353	3311
45°	3116	3273	3211
50°	3023	3168	3085
55°	2913	3049	2956
60°	2789	2904	2815
65°	2628	2729	2630
70°	2419	2516	2392
75°	2129	2225	2096
80°	1729	1807	1711
85°	1204	1284	1254



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.4	3.6
10°-20°	182.4	10.2
20°-30°	272.1	15.1
30°-40°	322.4	17.9
40°-50°	326.2	18.2
50°-60°	284.9	15.9
60°-70°	208.2	11.6
70°-80°	110.8	6.2
80°-90°	25.6	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°	518.8	28.9
0°-40°	841.2	46.8
0°-60°	1452.3	80.8
0°-90°	1796.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1796.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	684	684	684	684	684	
5°	675	676	681	682	677	64
15°	639	643	649	653	645	180
25°	579	586	596	598	589	267
35°	501	509	521	524	516	313
45°	409	417	430	430	422	316
55°	310	317	325	320	315	277
65°	206	211	214	210	206	204
75°	102	105	107	103	101	109
85°	20	20	21	21	20	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	683.5	683.5	683.5	683.5	683.5
2.5°	678.1	680.3	682.6	683.6	678.1
5°	674.6	675.9	680.9	682.5	676.7
7.5°	668.7	670.7	675.6	676.3	670.7
10°	660.8	664.2	667.5	671.0	664.3
12.5°	650.6	655.2	660.8	661.4	656.3
15°	639.1	643.4	649.4	653.4	644.9
17.5°	626.3	630.4	638.3	639.0	633.8
20°	612.0	617.1	626.5	628.1	619.0
22.5°	595.7	602.7	610.5	612.1	605.3
25°	578.7	585.8	595.5	597.7	588.7
27.5°	560.9	567.8	578.7	580.2	572.6
30°	541.8	548.2	560.2	562.8	555.1
32.5°	522.5	528.9	542.1	544.3	536.8
35°	501.0	508.8	520.8	524.5	516.0
37.5°	479.0	486.7	500.3	503.6	494.5
40°	456.3	463.9	477.3	480.0	471.3
42.5°	433.1	440.6	455.0	455.5	448.2
45°	409.4	416.7	430.0	430.4	421.9
47.5°	385.3	392.7	404.6	403.3	395.3
50°	361.0	367.9	378.4	375.7	368.5
52.5°	335.8	342.5	352.4	348.0	341.2
55°	310.4	316.7	324.9	320.2	315.0
57.5°	284.8	291.2	297.5	292.7	288.2
60°	259.1	264.6	269.8	265.0	261.5
62.5°	232.9	237.6	242.1	237.5	234.2
65°	206.4	210.6	214.3	210.0	206.5
67.5°	180.0	183.6	187.0	182.6	179.0
70°	153.7	156.7	159.9	155.3	152.0
72.5°	127.7	130.4	133.2	128.7	125.8
75°	102.4	104.8	107.0	103.1	100.8
77.5°	78.3	80.3	81.8	79.3	77.1
80°	55.8	57.3	58.3	57.3	55.2
82.5°	35.9	37.0	37.5	37.4	36.0
85°	19.5	19.9	20.8	21.0	20.3
87.5°	7.5	8.0	8.3	8.9	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)