

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: P490062

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2LO-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: P490062
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-LD4-2LO-40-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

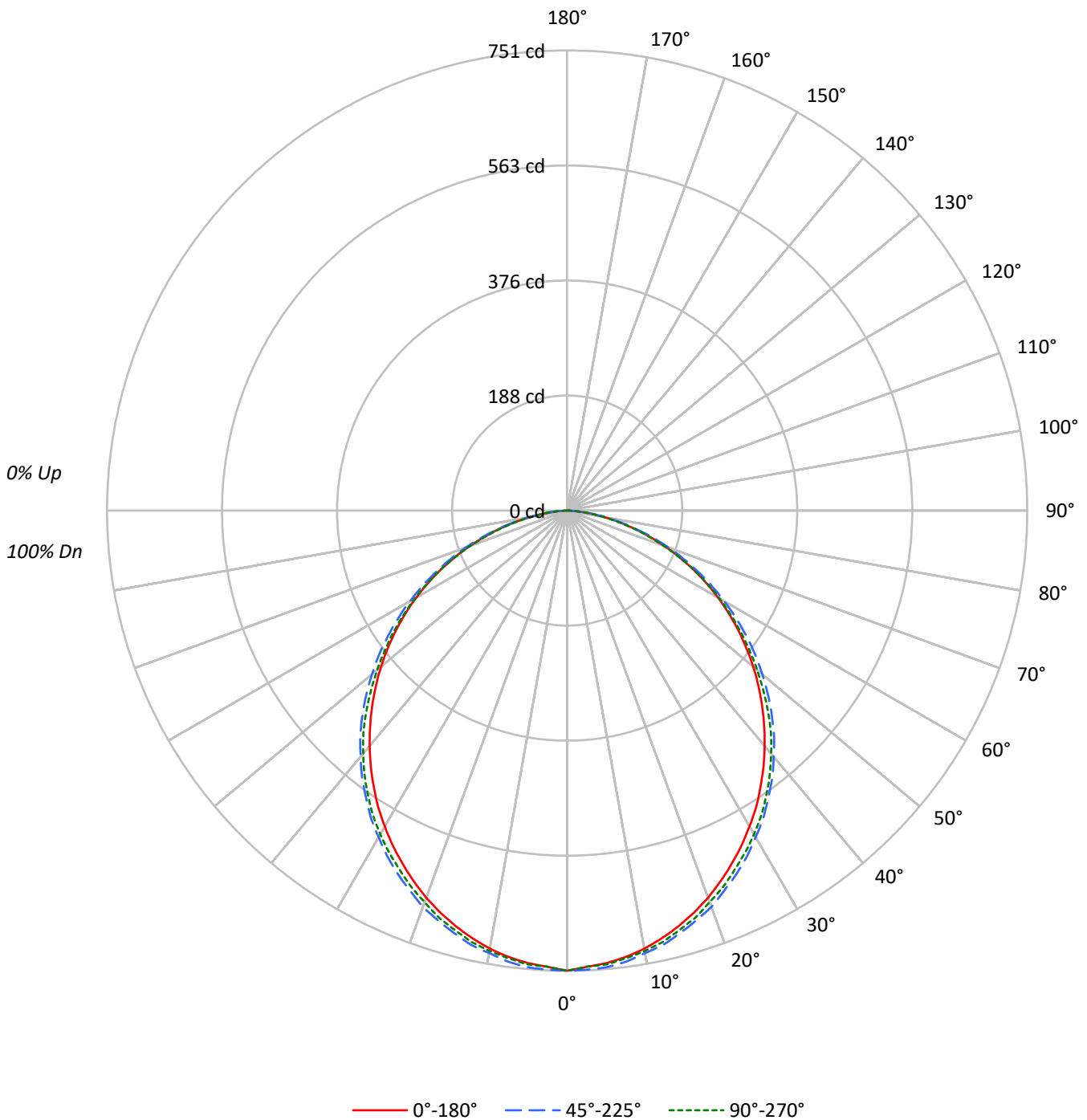
Lumens per Lamp: N/A
Luminaire Lumens: 1974.3 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	4042	4042	4042
5°	4004	4042	4017
10°	3968	4007	3988
15°	3913	3976	3948
20°	3851	3943	3895
25°	3776	3885	3841
30°	3700	3825	3790
35°	3616	3760	3725
40°	3523	3684	3638
45°	3424	3596	3529
50°	3321	3481	3390
55°	3201	3350	3248
60°	3063	3192	3092
65°	2887	2998	2890
70°	2656	2765	2628
75°	2339	2445	2304
80°	1900	1984	1878
85°	1321	1408	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	3.6
10°-20°	200.4	10.2
20°-30°	298.9	15.1
30°-40°	354.2	17.9
40°-50°	358.4	18.2
50°-60°	313.0	15.9
60°-70°	228.7	11.6
70°-80°	121.7	6.2
80°-90°	28.1	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°	570.1	28.9
0°-40°	924.3	46.8
0°-60°	1595.7	80.8
0°-90°	1974.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1974.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	751	751	751	751	751	
5°	741	743	748	750	744	70
15°	702	707	714	718	708	198
25°	636	644	654	657	647	293
35°	550	559	572	576	567	344
45°	450	458	472	473	464	347
55°	341	348	357	352	346	305
65°	227	231	235	231	227	224
75°	112	115	118	113	111	120
85°	21	22	23	23	22	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	751.0	751.0	751.0	751.0	751.0
2.5°	745.1	747.5	750.0	751.1	745.0
5°	741.2	742.6	748.1	749.9	743.5
7.5°	734.8	736.9	742.3	743.1	736.9
10°	726.0	729.8	733.3	737.3	729.8
12.5°	714.8	719.9	726.0	726.7	721.1
15°	702.2	706.9	713.6	717.9	708.5
17.5°	688.1	692.7	701.3	702.1	696.4
20°	672.4	678.0	688.4	690.2	680.1
22.5°	654.6	662.2	670.8	672.5	665.0
25°	635.9	643.7	654.3	656.8	646.8
27.5°	616.3	623.8	635.8	637.5	629.1
30°	595.3	602.4	615.5	618.4	609.9
32.5°	574.1	581.1	595.6	598.1	589.8
35°	550.4	559.0	572.3	576.2	566.9
37.5°	526.3	534.7	549.7	553.3	543.3
40°	501.4	509.7	524.4	527.4	517.8
42.5°	475.9	484.2	500.0	500.4	492.4
45°	449.8	457.8	472.5	472.9	463.6
47.5°	423.4	431.4	444.6	443.1	434.3
50°	396.6	404.3	415.8	412.8	404.9
52.5°	368.9	376.3	387.2	382.4	374.9
55°	341.1	347.9	357.0	351.8	346.1
57.5°	313.0	319.9	326.9	321.6	316.6
60°	284.6	290.7	296.5	291.1	287.3
62.5°	255.8	261.1	266.0	260.9	257.3
65°	226.7	231.4	235.4	230.7	226.9
67.5°	197.8	201.7	205.5	200.6	196.6
70°	168.8	172.2	175.7	170.6	167.0
72.5°	140.3	143.3	146.3	141.5	138.3
75°	112.5	115.1	117.6	113.3	110.8
77.5°	86.0	88.2	89.9	87.2	84.7
80°	61.3	63.0	64.0	62.9	60.6
82.5°	39.4	40.6	41.2	41.1	39.6
85°	21.4	21.8	22.8	23.1	22.3
87.5°	8.3	8.8	9.1	9.8	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)