

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: P490013

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-35-120-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: P490013
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
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

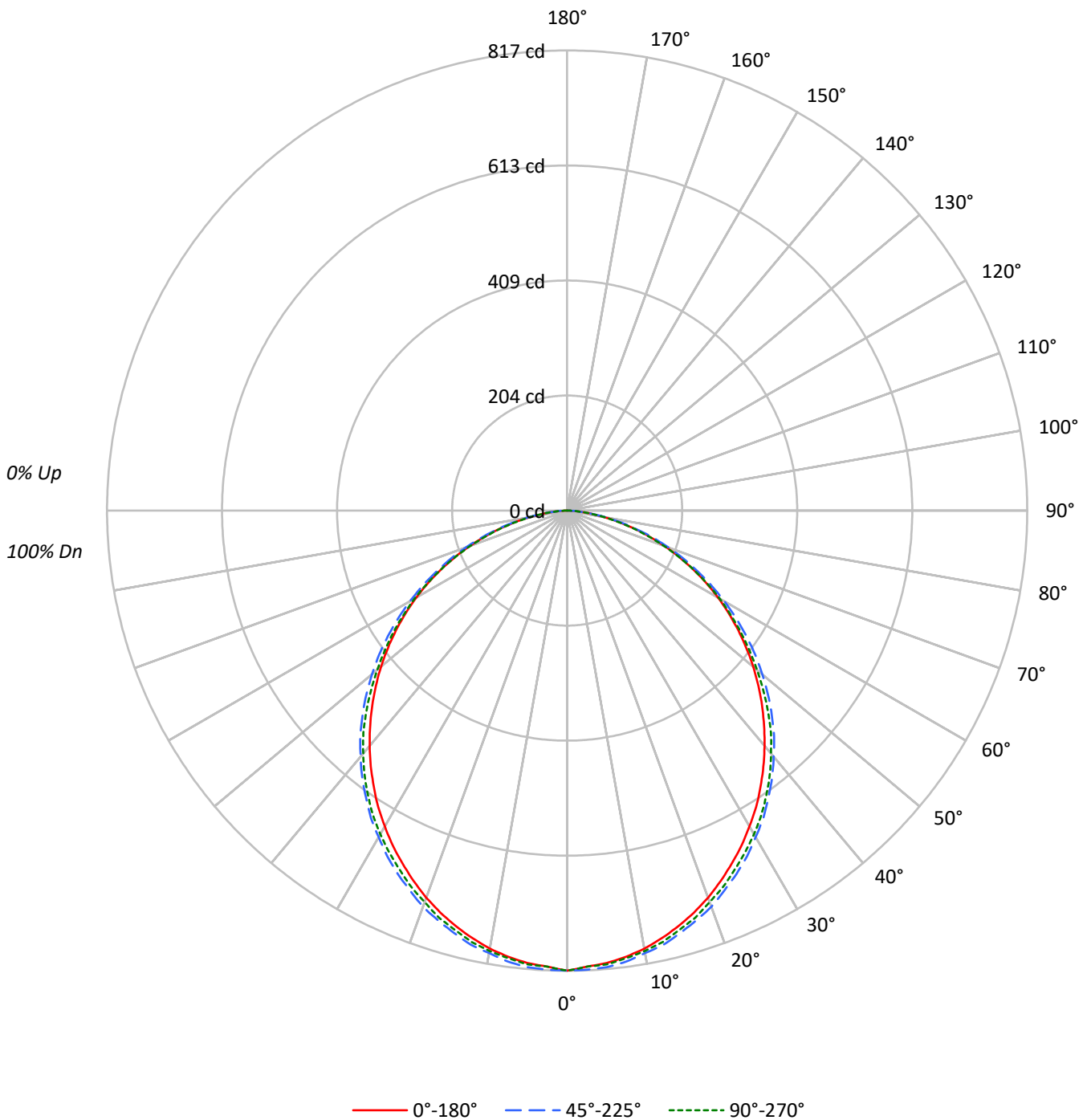
Lumens per Lamp: N/A
Luminaire Lumens: 2147.5 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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					100			
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85					85			
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71			
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60					60			
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51					51			
5	77	64	55	48	75	63	54	48	61	53	48	59	52	47	57	51	47	45					45			
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39					39			
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35					35			
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31					31			
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25					25			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4396	4396	4396
5°	4356	4397	4369
10°	4316	4359	4339
15°	4256	4325	4294
20°	4189	4288	4237
25°	4107	4226	4178
30°	4025	4161	4123
35°	3934	4090	4052
40°	3831	4008	3957
45°	3724	3911	3838
50°	3612	3786	3687
55°	3481	3643	3532
60°	3333	3471	3364
65°	3140	3261	3143
70°	2891	3007	2858
75°	2545	2660	2506
80°	2067	2157	2046
85°	1439	1538	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	3.6
10°-20°	218.0	10.2
20°-30°	325.1	15.1
30°-40°	385.3	17.9
40°-50°	389.8	18.2
50°-60°	340.5	15.9
60°-70°	248.8	11.6
70°-80°	132.4	6.2
80°-90°	30.6	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°	620.1	28.9
0°-40°	1005.4	46.8
0°-60°	1735.7	80.8
0°-90°	2147.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2147.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	806	808	814	816	809	76
15°	764	769	776	781	771	215
25°	692	700	712	714	704	319
35°	599	608	622	627	617	374
45°	489	498	514	514	504	377
55°	371	378	388	383	376	332
65°	247	252	256	251	247	244
75°	122	125	128	123	120	130
85°	23	24	25	25	24	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	816.8	816.8	816.8	816.8	816.8
2.5°	810.4	813.1	815.8	817.0	810.4
5°	806.2	807.7	813.8	815.6	808.7
7.5°	799.2	801.5	807.4	808.2	801.6
10°	789.7	793.8	797.7	801.9	793.9
12.5°	777.5	783.0	789.7	790.5	784.3
15°	763.8	768.9	776.2	780.8	770.7
17.5°	748.5	753.4	762.8	763.6	757.5
20°	731.4	737.5	748.7	750.7	739.7
22.5°	712.0	720.2	729.6	731.5	723.4
25°	691.6	700.2	711.7	714.4	703.6
27.5°	670.4	678.5	691.6	693.4	684.3
30°	647.6	655.2	669.5	672.7	663.4
32.5°	624.4	632.1	647.9	650.5	641.5
35°	598.7	608.1	622.5	626.8	616.7
37.5°	572.5	581.6	597.9	601.9	591.0
40°	545.3	554.4	570.5	573.7	563.2
42.5°	517.6	526.6	543.8	544.3	535.6
45°	489.3	497.9	513.9	514.4	504.2
47.5°	460.5	469.3	483.6	481.9	472.4
50°	431.4	439.7	452.2	449.0	440.4
52.5°	401.3	409.4	421.2	415.9	407.8
55°	371.0	378.5	388.3	382.7	376.4
57.5°	340.4	348.0	355.6	349.9	344.4
60°	309.6	316.2	322.5	316.7	312.5
62.5°	278.3	284.0	289.4	283.8	279.9
65°	246.6	251.7	256.1	251.0	246.8
67.5°	215.1	219.4	223.5	218.2	213.9
70°	183.7	187.3	191.1	185.6	181.6
72.5°	152.6	155.8	159.1	153.9	150.4
75°	122.4	125.2	127.9	123.2	120.5
77.5°	93.5	95.9	97.8	94.8	92.2
80°	66.7	68.5	69.6	68.4	66.0
82.5°	42.9	44.2	44.8	44.7	43.1
85°	23.3	23.7	24.9	25.1	24.3
87.5°	9.0	9.6	9.9	10.6	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)