

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: P490014

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-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: P490014
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-40-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

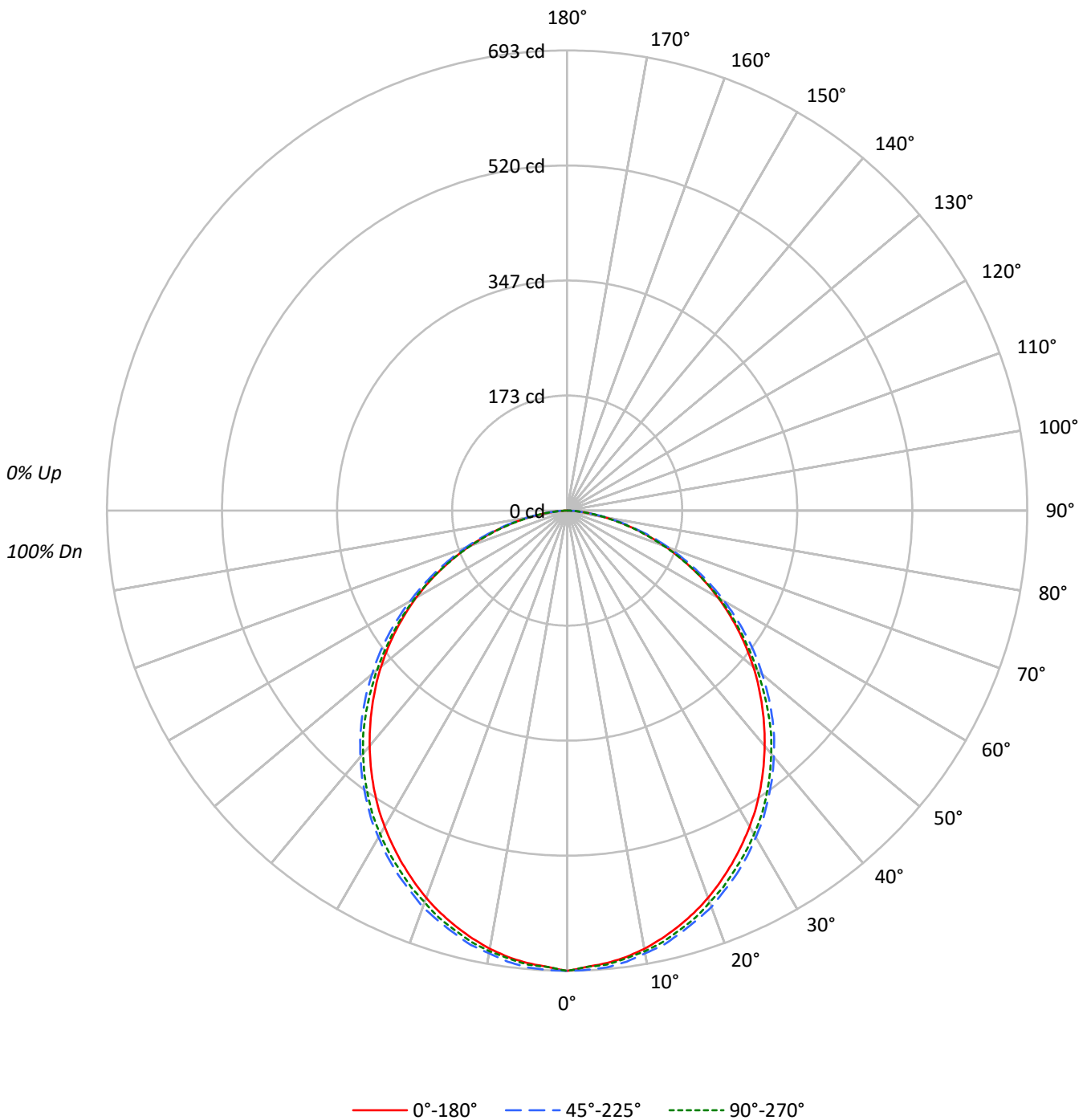
Lumens per Lamp: N/A
Luminaire Lumens: 1822.4 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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

TEST NUMBER: P490014

CATALOG NUMBER: CLP-12-2-INS-A19156-LD4-1HI-40-120-EDD-90

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°	3731	3731	3731
5°	3696	3731	3708
10°	3662	3699	3682
15°	3612	3670	3644
20°	3555	3639	3595
25°	3485	3587	3546
30°	3415	3531	3499
35°	3338	3470	3438
40°	3251	3401	3358
45°	3160	3319	3257
50°	3065	3213	3129
55°	2954	3092	2997
60°	2828	2945	2855
65°	2665	2767	2667
70°	2453	2551	2425
75°	2161	2256	2127
80°	1754	1832	1736
85°	1223	1303	1272



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	3.6
10°-20°	185.0	10.2
20°-30°	275.9	15.1
30°-40°	327.0	17.9
40°-50°	330.8	18.2
50°-60°	288.9	15.9
60°-70°	211.2	11.6
70°-80°	112.4	6.2
80°-90°	26.0	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°	526.2	28.9
0°-40°	853.2	46.8
0°-60°	1472.9	80.8
0°-90°	1822.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1822.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	693	693	693	693	693	
5°	684	685	691	692	686	65
15°	648	652	659	663	654	183
25°	587	594	604	606	597	270
35°	508	516	528	532	523	318
45°	415	423	436	436	428	320
55°	315	321	330	325	319	281
65°	209	214	217	213	209	207
75°	104	106	108	105	102	110
85°	20	20	21	21	21	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	693.2	693.2	693.2	693.2	693.2
2.5°	687.8	690.0	692.3	693.3	687.7
5°	684.1	685.4	690.6	692.2	686.3
7.5°	678.2	680.2	685.2	685.9	680.2
10°	670.1	673.6	676.9	680.5	673.7
12.5°	659.8	664.5	670.1	670.8	665.6
15°	648.2	652.5	658.7	662.6	654.0
17.5°	635.2	639.4	647.3	648.0	642.8
20°	620.7	625.9	635.4	637.1	627.7
22.5°	604.2	611.2	619.1	620.7	613.9
25°	586.9	594.2	604.0	606.2	597.1
27.5°	568.9	575.8	586.9	588.5	580.7
30°	549.5	556.0	568.2	570.8	563.0
32.5°	529.9	536.4	549.8	552.1	544.4
35°	508.1	516.0	528.2	531.9	523.3
37.5°	485.8	493.6	507.4	510.7	501.5
40°	462.8	470.4	484.1	486.8	478.0
42.5°	439.2	446.9	461.5	461.9	454.6
45°	415.2	422.6	436.1	436.5	427.9
47.5°	390.8	398.2	410.4	409.0	400.9
50°	366.1	373.2	383.8	381.0	373.7
52.5°	340.5	347.4	357.4	352.9	346.1
55°	314.8	321.2	329.5	324.8	319.4
57.5°	288.9	295.3	301.7	296.9	292.3
60°	262.7	268.4	273.6	268.7	265.2
62.5°	236.2	241.0	245.6	240.9	237.5
65°	209.3	213.6	217.3	213.0	209.4
67.5°	182.6	186.2	189.7	185.2	181.5
70°	155.9	159.0	162.1	157.5	154.1
72.5°	129.5	132.2	135.1	130.6	127.6
75°	103.9	106.2	108.5	104.6	102.3
77.5°	79.4	81.4	83.0	80.5	78.2
80°	56.6	58.1	59.1	58.1	56.0
82.5°	36.4	37.5	38.0	37.9	36.5
85°	19.8	20.1	21.1	21.3	20.6
87.5°	7.7	8.2	8.4	9.0	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)