

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: P490009

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1HI-27-120-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: P490009
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-27-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

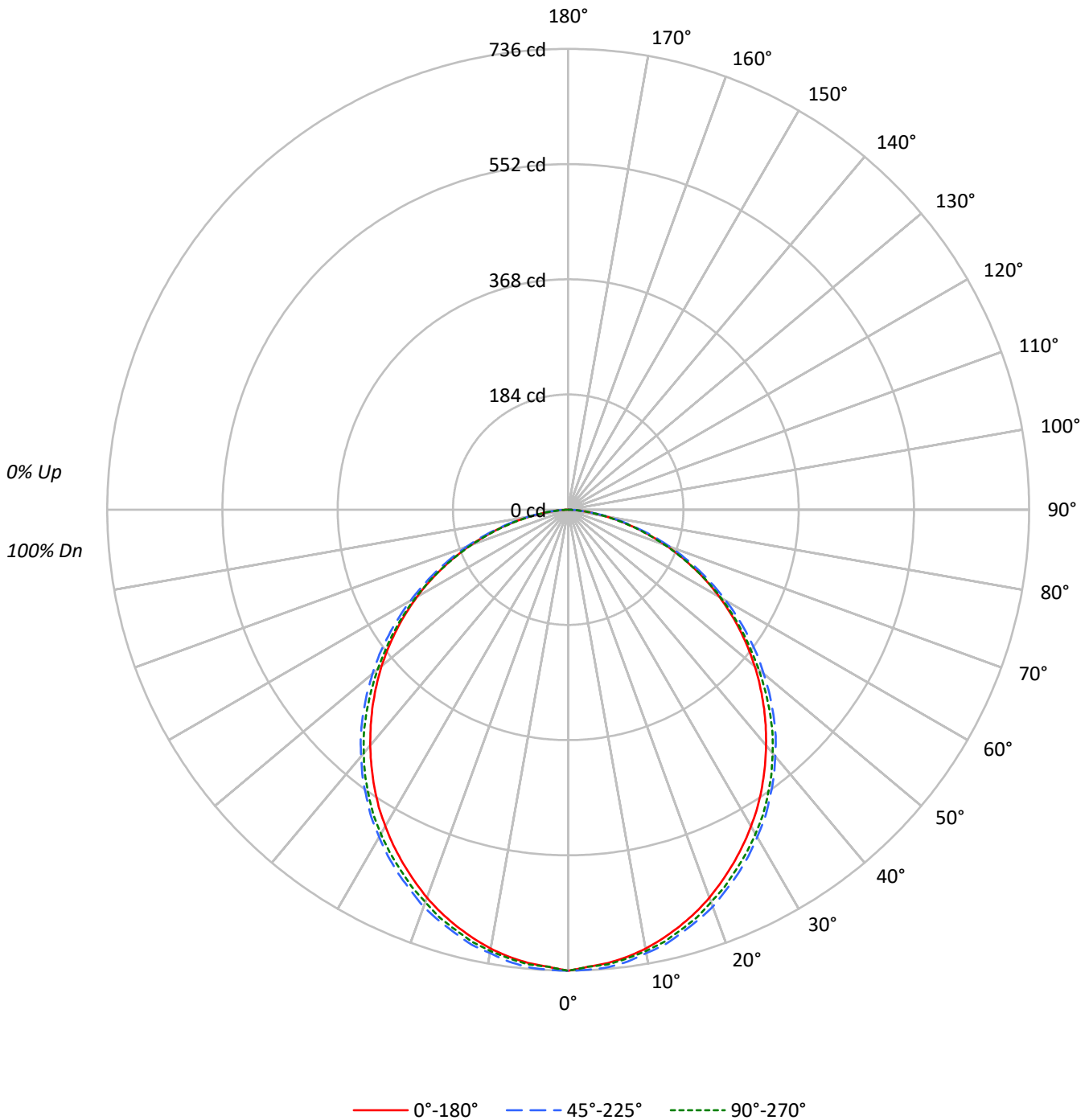
Lumens per Lamp: N/A
Luminaire Lumens: 1936.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	3963	3963	3963
5°	3927	3963	3939
10°	3891	3930	3911
15°	3837	3899	3871
20°	3777	3866	3820
25°	3703	3810	3767
30°	3628	3751	3717
35°	3546	3687	3652
40°	3454	3613	3568
45°	3357	3526	3460
50°	3256	3414	3324
55°	3138	3285	3184
60°	3004	3129	3032
65°	2831	2940	2833
70°	2606	2710	2576
75°	2294	2398	2258
80°	1866	1946	1844
85°	1297	1383	1352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.4	3.6
10°-20°	196.5	10.2
20°-30°	293.1	15.1
30°-40°	347.4	17.9
40°-50°	351.5	18.2
50°-60°	306.9	15.9
60°-70°	224.3	11.6
70°-80°	119.4	6.2
80°-90°	27.6	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°	559.0	28.9
0°-40°	906.3	46.8
0°-60°	1564.7	80.8
0°-90°	1936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1936.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	736	736	736	736	736	
5°	727	728	734	735	729	69
15°	689	693	700	704	695	194
25°	624	631	642	644	634	287
35°	540	548	561	565	556	338
45°	441	449	463	464	455	340
55°	334	341	350	345	339	299
65°	222	227	231	226	222	220
75°	110	113	115	111	109	117
85°	21	21	22	23	22	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	736.4	736.4	736.4	736.4	736.4
2.5°	730.6	733.0	735.5	736.5	730.6
5°	726.8	728.2	733.6	735.3	729.1
7.5°	720.5	722.6	727.9	728.6	722.7
10°	711.9	715.6	719.1	723.0	715.7
12.5°	700.9	705.9	711.9	712.6	707.1
15°	688.6	693.2	699.7	703.9	694.8
17.5°	674.8	679.2	687.7	688.4	682.9
20°	659.4	664.9	675.0	676.8	666.9
22.5°	641.9	649.3	657.7	659.4	652.1
25°	623.5	631.2	641.6	644.0	634.3
27.5°	604.3	611.7	623.4	625.1	616.9
30°	583.8	590.7	603.6	606.4	598.1
32.5°	562.9	569.8	584.1	586.5	578.3
35°	539.7	548.2	561.2	565.1	555.9
37.5°	516.1	524.3	539.1	542.6	532.8
40°	491.6	499.8	514.3	517.2	507.8
42.5°	466.6	474.8	490.3	490.7	482.9
45°	441.1	448.9	463.3	463.7	454.6
47.5°	415.1	423.0	435.9	434.5	425.9
50°	388.9	396.4	407.7	404.8	397.0
52.5°	361.7	369.0	379.7	374.9	367.7
55°	334.4	341.2	350.1	345.0	339.3
57.5°	306.9	313.7	320.5	315.4	310.5
60°	279.1	285.1	290.7	285.5	281.7
62.5°	250.9	256.0	260.9	255.9	252.3
65°	222.3	226.9	230.9	226.3	222.5
67.5°	194.0	197.8	201.5	196.7	192.8
70°	165.6	168.9	172.2	167.3	163.7
72.5°	137.6	140.5	143.5	138.7	135.6
75°	110.3	112.9	115.3	111.1	108.6
77.5°	84.3	86.5	88.2	85.5	83.1
80°	60.2	61.8	62.8	61.7	59.5
82.5°	38.7	39.8	40.4	40.3	38.8
85°	21.0	21.4	22.4	22.6	21.9
87.5°	8.1	8.7	8.9	9.6	8.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)