

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: P490038

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-1STD-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: P490038
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-LD4-1STD-40-120-EDD-90
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

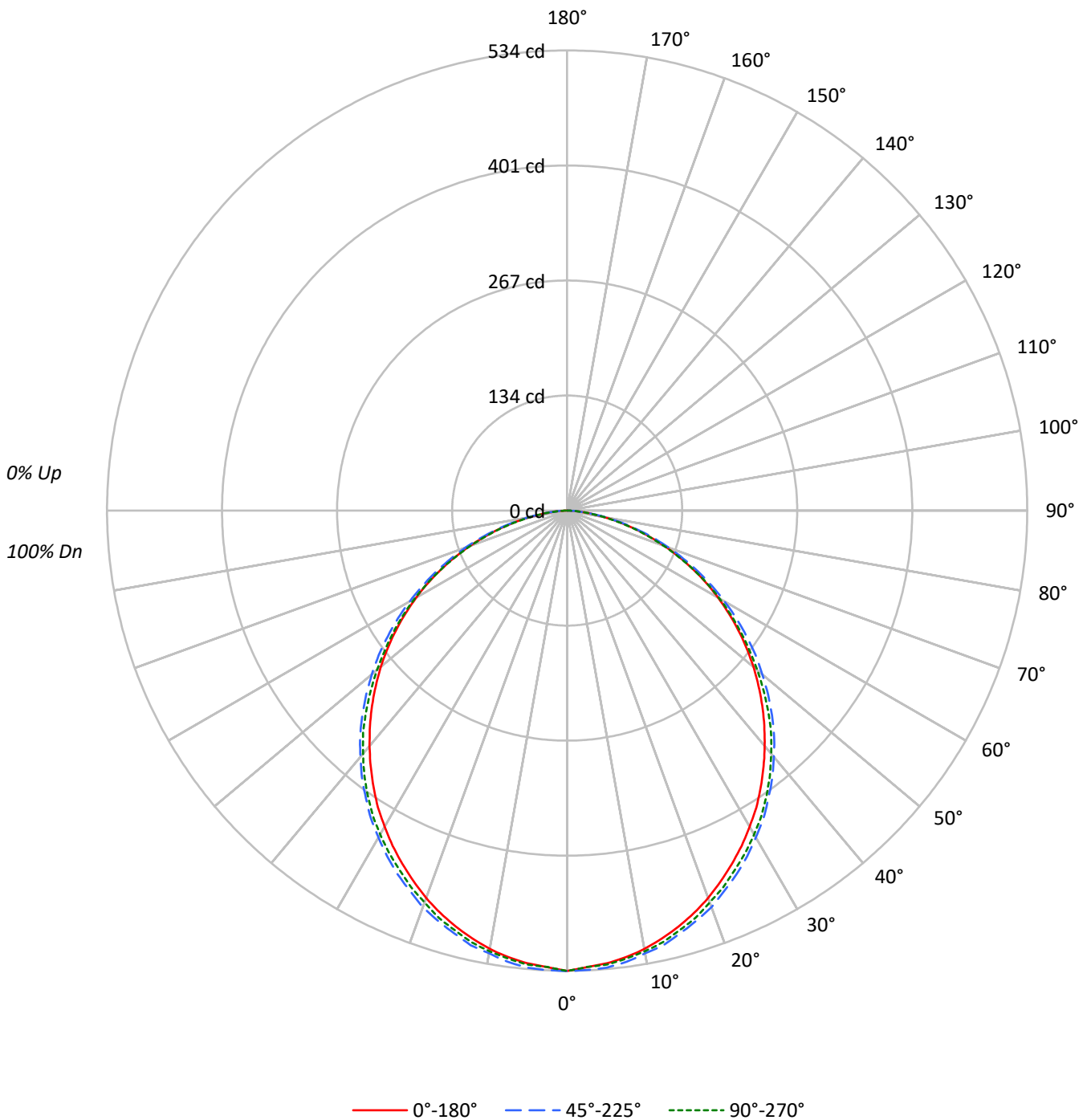
Lumens per Lamp: N/A
Luminaire Lumens: 1404.8 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	2876	2876	2876
5°	2849	2876	2858
10°	2823	2852	2838
15°	2784	2829	2809
20°	2740	2805	2771
25°	2687	2765	2733
30°	2632	2722	2697
35°	2573	2675	2650
40°	2506	2622	2588
45°	2436	2559	2511
50°	2363	2477	2412
55°	2277	2383	2310
60°	2180	2270	2200
65°	2054	2133	2055
70°	1890	1967	1869
75°	1666	1740	1639
80°	1351	1410	1336
85°	945	1007	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	3.6
10°-20°	142.6	10.2
20°-30°	212.7	15.1
30°-40°	252.0	17.9
40°-50°	255.0	18.2
50°-60°	222.7	15.9
60°-70°	162.8	11.6
70°-80°	86.6	6.2
80°-90°	20.0	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°	405.6	28.9
0°-40°	657.7	46.8
0°-60°	1135.4	80.8
0°-90°	1404.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1404.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	527	528	532	534	529	50
15°	500	503	508	511	504	141
25°	452	458	466	467	460	208
35°	392	398	407	410	403	245
45°	320	326	336	336	330	247
55°	243	248	254	250	246	217
65°	161	165	168	164	161	160
75°	80	82	84	81	79	85
85°	15	16	16	16	16	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	534.3	534.3	534.3	534.3	534.3
2.5°	530.2	531.9	533.7	534.4	530.1
5°	527.4	528.4	532.3	533.6	529.0
7.5°	522.8	524.3	528.2	528.7	524.4
10°	516.6	519.2	521.8	524.6	519.3
12.5°	508.6	512.2	516.6	517.1	513.1
15°	499.7	503.0	507.7	510.8	504.2
17.5°	489.6	492.9	499.0	499.5	495.5
20°	478.4	482.5	489.8	491.1	483.9
22.5°	465.7	471.1	477.3	478.5	473.2
25°	452.4	458.0	465.6	467.3	460.2
27.5°	438.5	443.9	452.4	453.6	447.7
30°	423.6	428.6	438.0	440.0	434.0
32.5°	408.5	413.5	423.8	425.6	419.7
35°	391.6	397.8	407.2	410.0	403.4
37.5°	374.5	380.5	391.1	393.7	386.6
40°	356.7	362.6	373.2	375.3	368.4
42.5°	338.6	344.5	355.7	356.1	350.4
45°	320.1	325.7	336.2	336.5	329.9
47.5°	301.2	307.0	316.3	315.3	309.0
50°	282.2	287.7	295.8	293.7	288.1
52.5°	262.5	267.8	275.5	272.1	266.8
55°	242.7	247.6	254.0	250.4	246.2
57.5°	222.7	227.6	232.6	228.9	225.3
60°	202.5	206.9	210.9	207.2	204.4
62.5°	182.0	185.8	189.3	185.7	183.1
65°	161.3	164.6	167.5	164.2	161.4
67.5°	140.7	143.5	146.2	142.7	139.9
70°	120.1	122.5	125.0	121.4	118.8
72.5°	99.8	101.9	104.1	100.7	98.4
75°	80.1	81.9	83.7	80.6	78.8
77.5°	61.2	62.7	64.0	62.0	60.3
80°	43.6	44.8	45.5	44.8	43.1
82.5°	28.1	28.9	29.3	29.2	28.2
85°	15.3	15.5	16.3	16.4	15.9
87.5°	5.9	6.3	6.5	7.0	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)