

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: P490071

Luminaire Tested: **CLP-12-2-INS-A19156-LD4-2STD-30-120-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: P490071
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-LD4-2STD-30-120-EDD
Description: 1X2 CLP LED LUMINAIRE WITH A19156 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

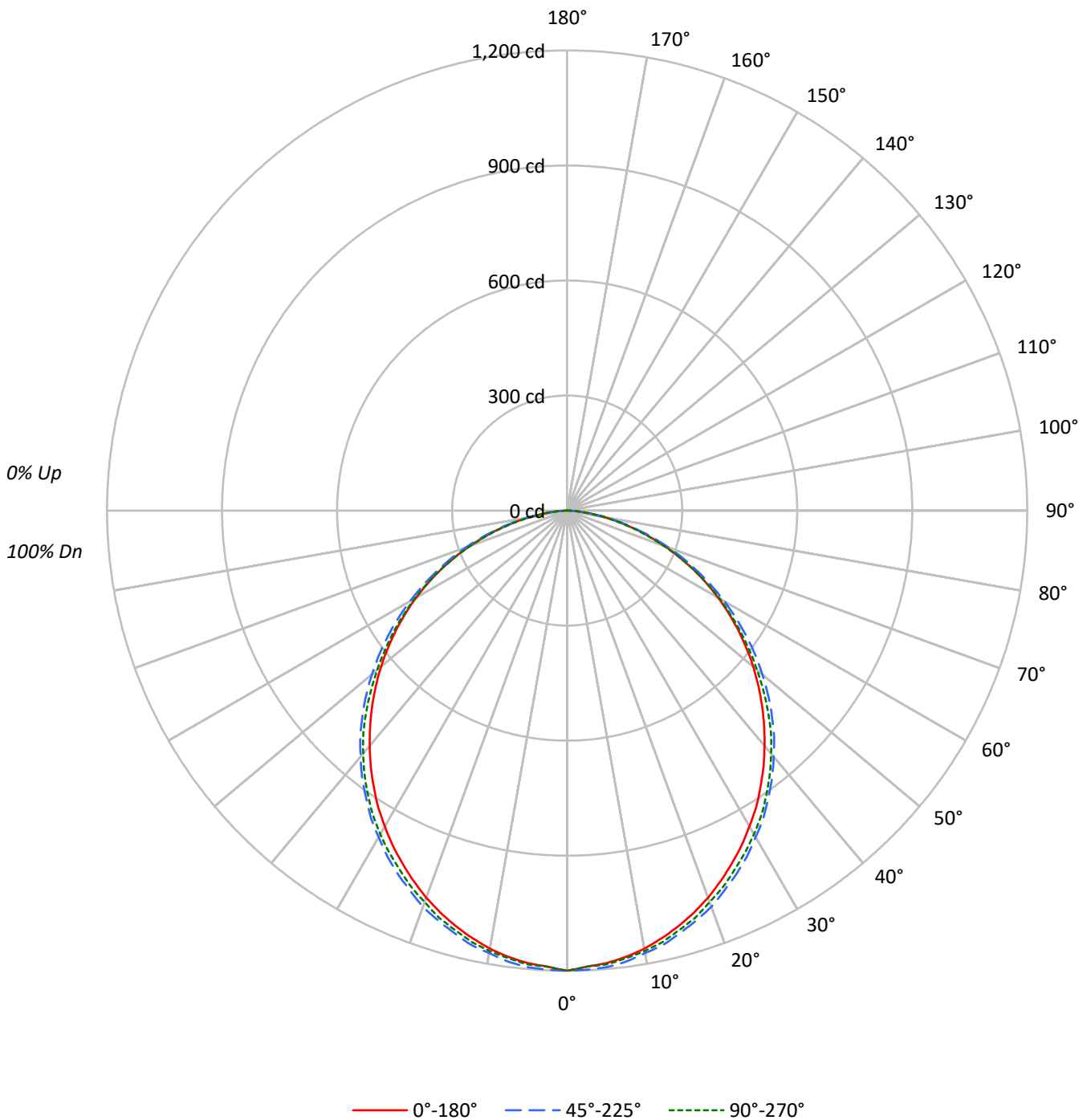
Lumens per Lamp: N/A
Luminaire Lumens: 3154.3 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.34
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6457	6457	6457
5°	6398	6458	6418
10°	6339	6403	6372
15°	6251	6352	6307
20°	6153	6299	6223
25°	6033	6208	6137
30°	5911	6111	6055
35°	5778	6007	5951
40°	5628	5887	5812
45°	5469	5746	5637
50°	5305	5562	5416
55°	5113	5352	5188
60°	4895	5098	4941
65°	4614	4790	4616
70°	4246	4415	4198
75°	3739	3907	3681
80°	3037	3171	3003
85°	2118	2254	2198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	3.6
10°-20°	320.2	10.2
20°-30°	477.6	15.1
30°-40°	565.9	17.9
40°-50°	572.6	18.2
50°-60°	500.1	15.9
60°-70°	365.5	11.6
70°-80°	194.5	6.2
80°-90°	45.0	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°	910.8	28.9
0°-40°	1476.7	46.8
0°-60°	2549.5	80.8
0°-90°	3154.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3154.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1184	1186	1195	1198	1188	112
15°	1122	1129	1140	1147	1132	316
25°	1016	1028	1045	1049	1033	468
35°	879	893	914	921	906	550
45°	719	731	755	756	741	554
55°	545	556	570	562	553	487
65°	362	370	376	369	362	359
75°	180	184	188	181	177	191
85°	34	35	36	37	36	43
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.8	1199.8	1199.8	<i>1199.8</i>	1199.8
2.5°	<i>1190.4</i>	<i>1194.3</i>	<i>1198.3</i>	<i>1200.0</i>	<i>1190.3</i>
5°	1184.2	1186.4	1195.3	<i>1198.0</i>	1187.9
7.5°	1173.9	1177.3	1185.9	<i>1187.2</i>	1177.4
10°	1159.9	1165.9	1171.7	<i>1177.9</i>	1166.0
12.5°	1142.0	1150.2	1159.9	<i>1161.0</i>	1152.0
15°	1121.9	1129.4	1140.0	<i>1146.9</i>	1132.0
17.5°	1099.4	1106.7	1120.4	<i>1121.7</i>	1112.7
20°	1074.3	1083.3	1099.8	<i>1102.7</i>	1086.5
22.5°	1045.8	1057.9	1071.7	<i>1074.4</i>	1062.5
25°	1015.9	1028.4	1045.4	<i>1049.3</i>	1033.4
27.5°	984.7	996.7	1015.8	<i>1018.5</i>	1005.2
30°	951.2	962.4	983.4	<i>988.0</i>	974.4
32.5°	917.2	928.4	951.7	<i>955.5</i>	942.3
35°	879.4	893.1	914.3	<i>920.7</i>	905.8
37.5°	840.9	854.3	878.3	<i>884.0</i>	868.0
40°	801.0	814.3	837.9	<i>842.6</i>	827.3
42.5°	760.3	773.5	798.8	<i>799.5</i>	786.8
45°	718.6	731.4	754.9	<i>755.5</i>	740.6
47.5°	676.4	689.3	710.3	<i>707.9</i>	693.9
50°	633.6	645.9	664.3	<i>659.5</i>	646.9
52.5°	589.4	601.3	618.6	<i>610.9</i>	599.0
55°	544.9	555.9	570.4	<i>562.1</i>	552.9
57.5°	500.0	511.1	522.3	<i>513.9</i>	505.9
60°	454.8	464.5	473.6	<i>465.1</i>	459.0
62.5°	408.8	417.1	425.0	<i>416.9</i>	411.1
65°	362.3	369.6	376.1	<i>368.6</i>	362.5
67.5°	316.0	322.3	328.3	<i>320.5</i>	314.1
70°	269.8	275.1	280.6	<i>272.6</i>	266.8
72.5°	224.1	228.9	233.8	<i>226.0</i>	220.9
75°	179.8	183.9	187.9	<i>181.0</i>	177.0
77.5°	137.4	140.9	143.6	<i>139.3</i>	135.4
80°	98.0	100.6	102.3	<i>100.5</i>	96.9
82.5°	63.0	64.9	65.8	<i>65.6</i>	63.3
85°	34.3	34.9	36.5	<i>36.9</i>	35.6
87.5°	13.3	14.1	14.5	<i>15.6</i>	14.4
90°	0.0	0.0	0.0	<i>0.0</i>	0.0

(END OF REPORT)