

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: METALUX

Report Number: P291374

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291374
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33288)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A19/156-UNV-L83050-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4497.0 lumens
Efficiency: N/A
Efficacy: 117.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

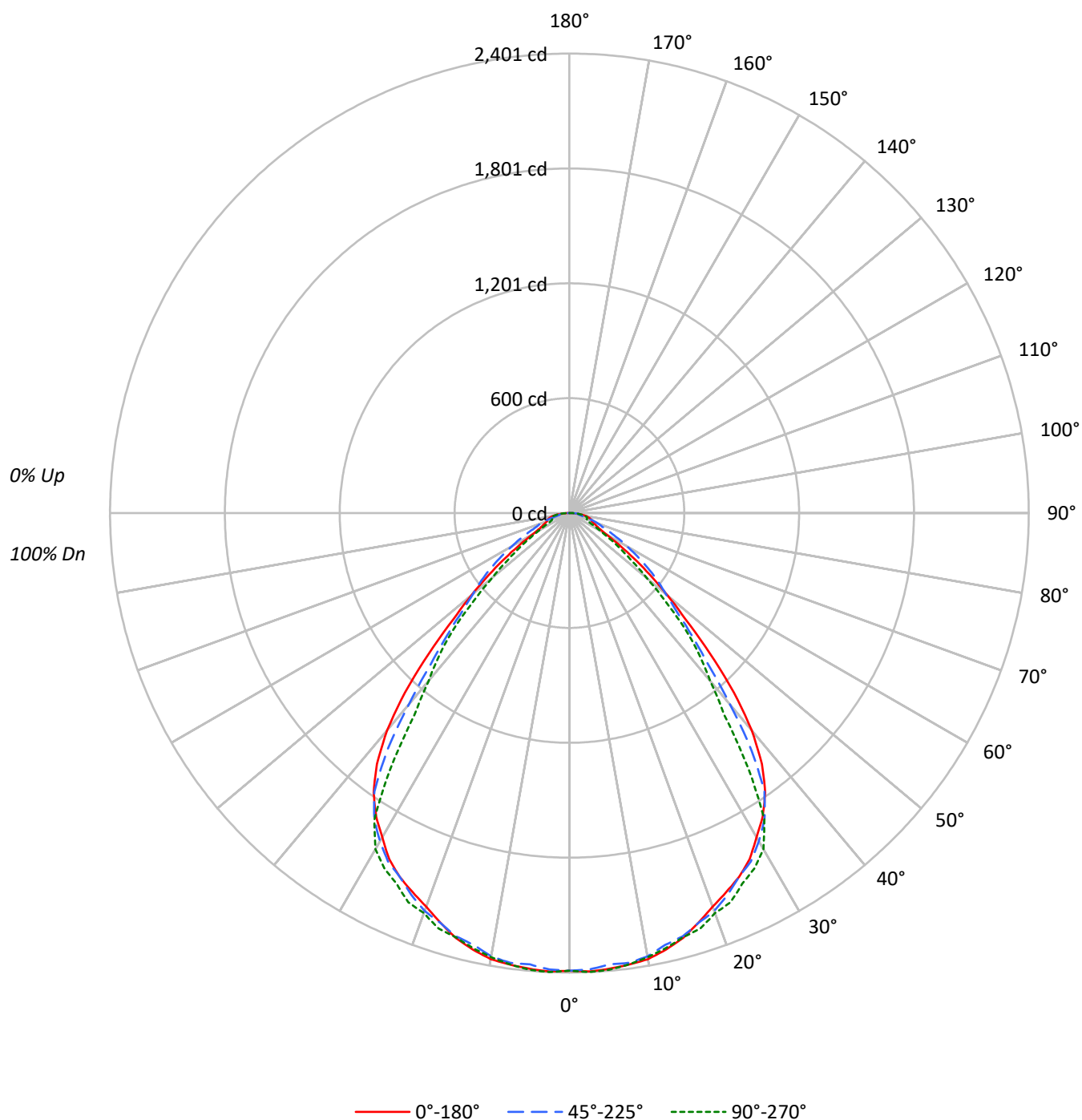
Input Watts (W): 38.316
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	100	108	105	102	99	101	98	96		97	95	93		93
2	103	96	90	86	100	94	89	85	91	87	83		88	84	81		85
3	95	87	80	74	93	85	79	74	82	77	73		80	75	71		77
4	89	79	71	65	87	77	70	65	75	69	64		73	68	63		71
5	83	71	64	58	81	70	63	58	68	62	57		67	61	57		65
6	77	65	58	52	75	64	57	52	63	56	51		61	55	51		60
7	72	60	52	47	70	59	52	47	58	51	46		56	51	46		55
8	67	55	48	43	66	55	47	42	53	47	42		52	46	42		51
9	63	51	44	39	62	51	44	39	50	43	39		49	43	38		48
10	60	48	40	36	58	47	40	36	46	40	35		45	39	35		44

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6435	6435	6435
5°	6457	6396	6471
10°	6467	6427	6439
15°	6401	6378	6393
20°	6267	6335	6371
25°	6229	6226	6345
30°	6078	6151	6301
35°	5861	5837	5364
40°	5204	4593	4021
45°	3949	3436	3252
50°	2801	2750	2207
55°	1917	2347	1516
60°	1186	1872	1014
65°	977	1442	734
70°	972	1256	753
75°	1167	899	1006
80°	1340	829	1260
85°	1272	1463	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	226.9	5.0
10°-20°	647.6	14.4
20°-30°	973.9	21.7
30°-40°	1061.7	23.6
40°-50°	743.4	16.5
50°-60°	420.8	9.4
60°-70°	230.3	5.1
70°-80°	139.6	3.1
80°-90°	52.9	1.2
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°	1848.4	41.1
0°-40°	2910.1	64.7
0°-60°	4074.3	90.6
0°-90°	4497.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2391	2391	2391	2391	2391	
5°	2390	2386	2368	2395	2395	227
15°	2298	2292	2289	2322	2295	646
25°	2098	2102	2097	2145	2137	964
35°	1784	1776	1777	1686	1633	1099
45°	1038	1083	903	892	854	806
55°	409	489	500	496	323	374
65°	153	252	226	286	115	158
75°	112	162	86	170	97	116
85°	41	67	47	58	46	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2391.3	2391.3	2391.3	2391.3	2391.3
2.5°	2397.5	2394.4	2387.2	2401.6	2400.6
5°	2390.3	2386.2	2367.7	2395.4	2395.4
7.5°	2380.0	2369.7	2370.7	2386.2	2379.0
10°	2366.6	2349.1	2352.2	2356.3	2356.3
12.5°	2335.7	2319.3	2311.0	2324.4	2328.5
15°	2297.7	2291.5	2289.4	2322.4	2294.6
17.5°	2244.1	2257.5	2245.2	2271.9	2276.0
20°	2188.5	2214.3	2212.2	2230.7	2224.6
22.5°	2143.2	2159.7	2159.7	2182.4	2200.9
25°	2097.9	2102.1	2096.9	2145.3	2137.1
27.5°	2039.3	2036.2	2052.7	2077.4	2093.8
30°	1955.9	1956.9	1979.6	2012.5	2027.9
32.5°	1879.7	1870.4	1898.2	1912.7	1896.2
35°	1784.0	1775.7	1776.8	1686.2	1632.7
37.5°	1653.2	1660.4	1565.7	1400.0	1330.0
40°	1481.3	1495.7	1307.4	1183.8	1144.7
42.5°	1273.4	1277.5	1071.6	1031.5	1005.7
45°	1037.6	1082.9	902.8	891.5	854.4
47.5°	822.5	906.9	756.6	763.8	675.3
50°	669.1	753.5	656.8	659.9	527.1
52.5°	529.1	611.5	579.6	570.3	413.8
55°	408.7	489.0	500.3	496.2	323.2
57.5°	300.6	387.1	420.0	435.4	249.1
60°	220.3	316.0	347.9	378.8	188.4
62.5°	175.0	273.8	285.1	330.4	146.2
65°	153.4	252.2	226.5	286.2	115.3
67.5°	136.9	239.9	184.3	253.2	100.9
70°	123.5	216.2	159.6	226.5	95.7
72.5°	123.5	189.4	125.6	200.7	96.8
75°	112.2	161.6	86.5	169.9	96.8
77.5°	99.9	137.9	64.9	137.9	90.6
80°	86.5	108.1	53.5	106.0	81.3
82.5°	63.8	81.3	46.3	79.3	65.9
85°	41.2	66.9	47.4	57.6	46.3
87.5°	19.6	34.0	29.9	28.8	23.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)