

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: P291434

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291434
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-L82765-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: 4309.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

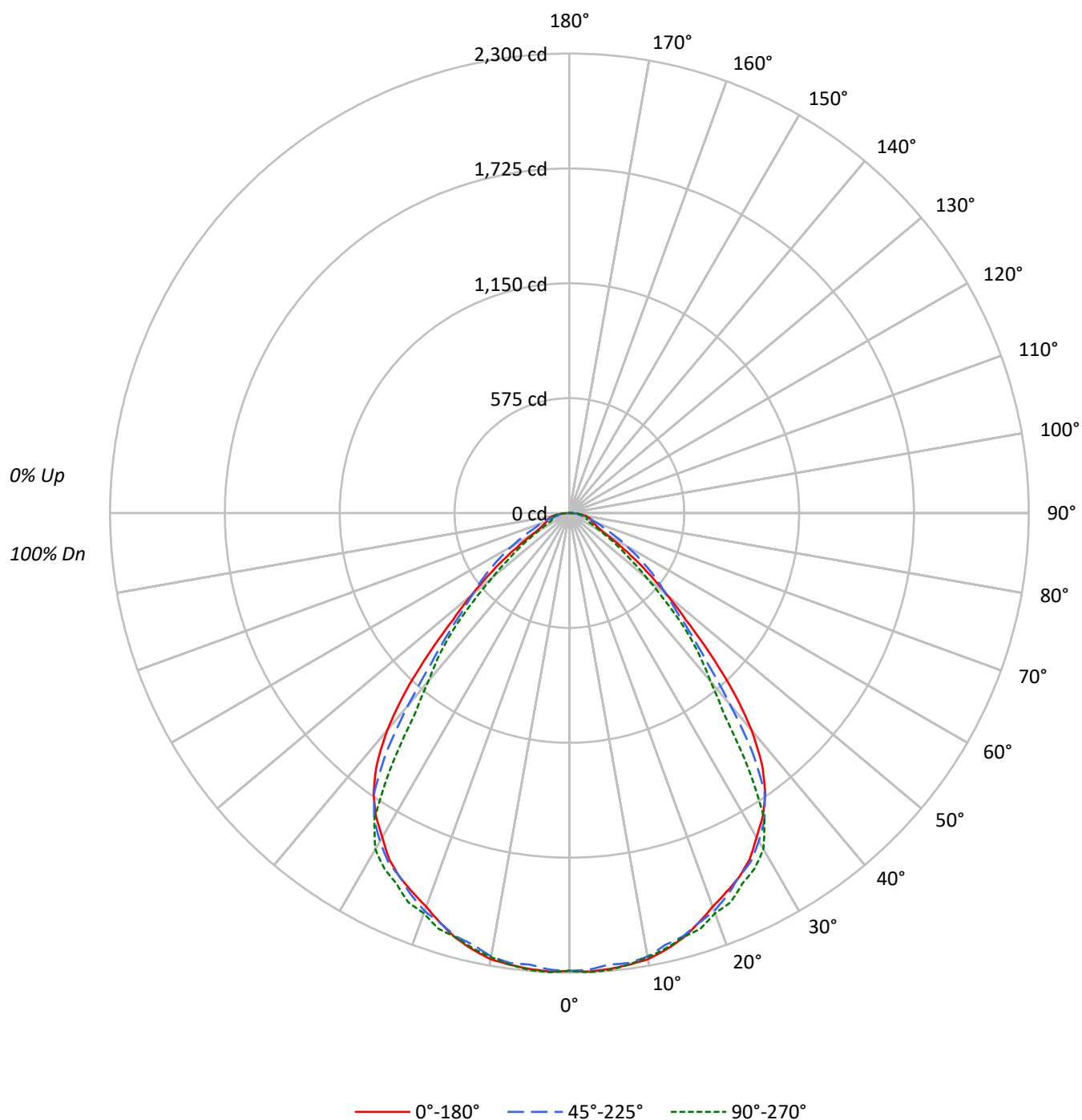
Input Watts (W): 37.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	111	107	104	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88	
2	103	96	90	86	100	94	89	85	91	87	83	88	84	81	85	82	79	77	
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68	
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	61	
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	54	
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	49	
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	44	
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	40	
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	37	
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	34	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6166	6166	6166
5°	6187	6128	6200
10°	6196	6159	6169
15°	6133	6111	6125
20°	6005	6070	6104
25°	5969	5966	6080
30°	5823	5894	6038
35°	5616	5593	5139
40°	4986	4401	3853
45°	3784	3292	3116
50°	2684	2635	2114
55°	1837	2249	1453
60°	1136	1794	971
65°	936	1382	704
70°	932	1203	721
75°	1118	862	964
80°	1285	795	1207
85°	1220	1402	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.4	5.0
10°-20°	620.5	14.4
20°-30°	933.2	21.7
30°-40°	1017.3	23.6
40°-50°	712.3	16.5
50°-60°	403.2	9.4
60°-70°	220.6	5.1
70°-80°	133.7	3.1
80°-90°	50.7	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°	1771.1	41.1
0°-40°	2788.4	64.7
0°-60°	3904.0	90.6
0°-90°	4309.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2291	2291	2291	2291	2291	
5°	2290	2286	2269	2295	2295	218
15°	2202	2196	2194	2225	2199	619
25°	2010	2014	2009	2056	2048	923
35°	1709	1702	1702	1616	1564	1053
45°	994	1038	865	854	819	772
55°	392	468	479	475	310	358
65°	147	242	217	274	110	151
75°	108	155	83	163	93	112
85°	40	64	45	55	44	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2291.4	2291.4	2291.4	2291.4	2291.4
2.5°	2297.3	2294.3	2287.4	2301.2	2300.2
5°	2290.4	2286.4	2268.7	2295.3	2295.3
7.5°	2280.5	2270.6	2271.6	2286.4	2279.5
10°	2267.7	2250.9	2253.9	2257.8	2257.8
12.5°	2238.1	2222.3	2214.4	2227.2	2231.2
15°	2201.6	2195.7	2193.7	2225.3	2198.6
17.5°	2150.3	2163.1	2151.3	2176.9	2180.9
20°	2097.0	2121.7	2119.7	2137.5	2131.6
22.5°	2053.6	2069.4	2069.4	2091.1	2108.9
25°	2010.2	2014.2	2009.3	2055.6	2047.7
27.5°	1954.0	1951.1	1966.8	1990.5	2006.3
30°	1874.1	1875.1	1896.8	1928.4	1943.2
32.5°	1801.1	1792.3	1818.9	1832.7	1816.9
35°	1709.4	1701.5	1702.5	1615.7	1564.4
37.5°	1584.1	1591.0	1500.3	1341.5	1274.4
40°	1419.4	1433.2	1252.7	1134.3	1096.9
42.5°	1220.2	1224.1	1026.8	988.4	963.7
45°	994.3	1037.7	865.1	854.2	818.7
47.5°	788.1	869.0	725.0	731.9	647.1
50°	641.1	722.0	629.3	632.3	505.0
52.5°	507.0	585.9	555.3	546.5	396.5
55°	391.6	468.5	479.4	475.4	309.7
57.5°	288.0	370.9	402.4	417.2	238.7
60°	211.1	302.8	333.4	363.0	180.5
62.5°	167.7	262.4	273.2	316.6	140.1
65°	147.0	241.7	217.0	274.2	110.5
67.5°	131.2	229.8	176.6	242.6	96.7
70°	118.4	207.1	152.9	217.0	91.7
72.5°	118.4	181.5	120.3	192.3	92.7
75°	107.5	154.9	82.9	162.8	92.7
77.5°	95.7	132.2	62.1	132.2	86.8
80°	82.9	103.6	51.3	101.6	77.9
82.5°	61.2	77.9	44.4	76.0	63.1
85°	39.5	64.1	45.4	55.2	44.4
87.5°	18.7	32.6	28.6	27.6	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)