

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: P291436

Luminaire Tested: **14GR-LD5-43-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291436
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-5500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4411.0 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

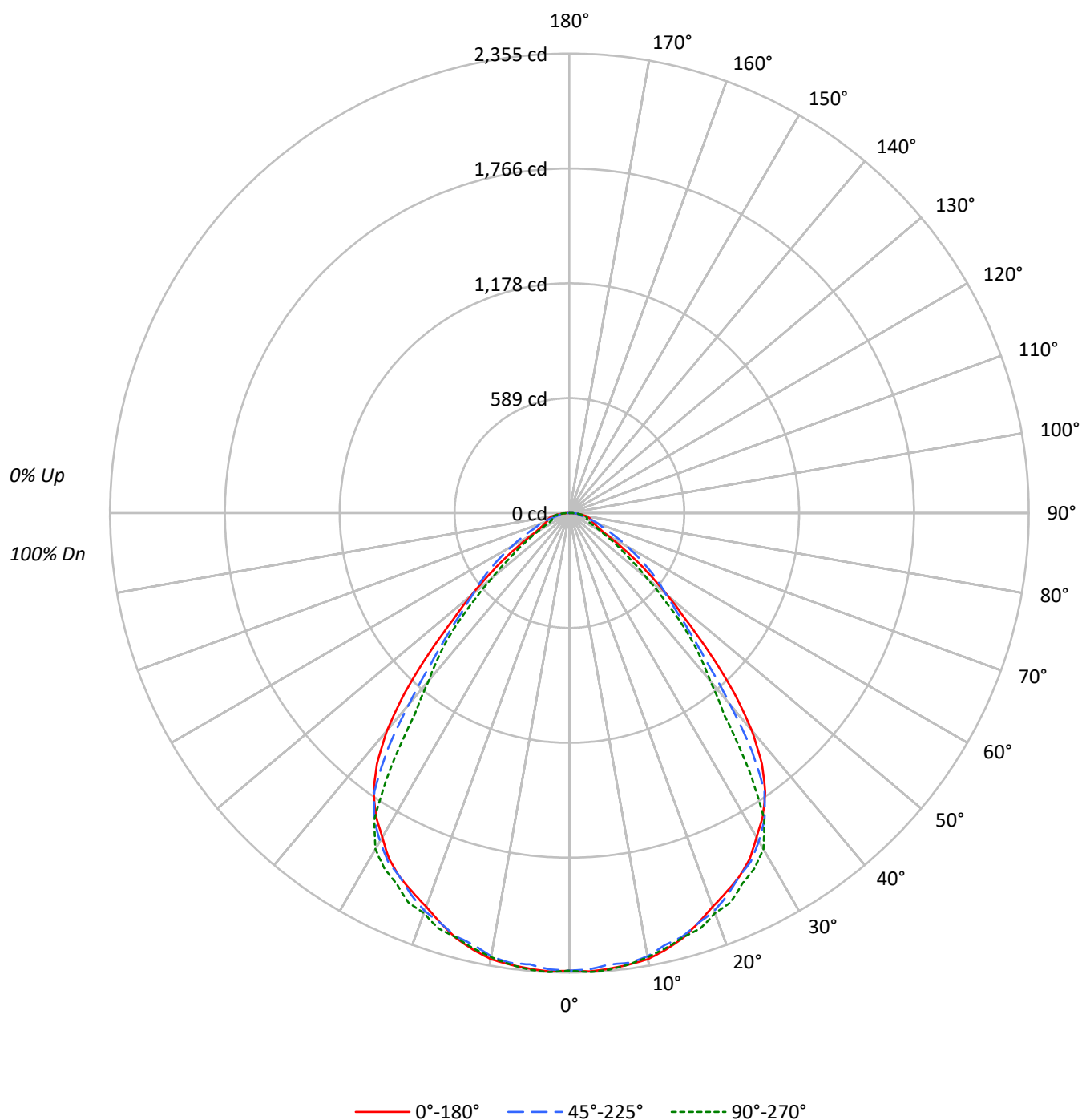
Input Watts (W): 37.572
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	6312	6312	6312
5°	6333	6273	6347
10°	6343	6304	6316
15°	6279	6256	6270
20°	6147	6214	6249
25°	6110	6107	6224
30°	5961	6033	6181
35°	5749	5725	5261
40°	5104	4505	3944
45°	3873	3370	3189
50°	2748	2697	2164
55°	1881	2302	1488
60°	1163	1837	995
65°	958	1414	720
70°	954	1231	739
75°	1145	882	987
80°	1314	814	1237
85°	1247	1433	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.5	5.0
10°-20°	635.2	14.4
20°-30°	955.3	21.7
30°-40°	1041.4	23.6
40°-50°	729.2	16.5
50°-60°	412.8	9.4
60°-70°	225.9	5.1
70°-80°	136.9	3.1
80°-90°	51.9	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°	1813.0	41.1
0°-40°	2854.4	64.7
0°-60°	3996.4	90.6
0°-90°	4411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2346	2346	2346	2346	2346	
5°	2345	2340	2322	2350	2350	223
15°	2254	2248	2246	2278	2251	634
25°	2058	2062	2057	2104	2096	945
35°	1750	1742	1743	1654	1601	1078
45°	1018	1062	886	874	838	790
55°	401	480	491	487	317	366
65°	150	247	222	281	113	155
75°	110	158	85	167	95	114
85°	40	66	46	56	45	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2345.6	2345.6	2345.6	2345.6	2345.6
2.5°	2351.7	2348.6	2341.6	2355.7	2354.7
5°	2344.6	2340.5	2322.4	2349.6	2349.6
7.5°	2334.5	2324.4	2325.4	2340.5	2333.5
10°	2321.4	2304.2	2307.2	2311.3	2311.3
12.5°	2291.1	2274.9	2266.8	2280.0	2284.0
15°	2253.7	2247.7	2245.6	2277.9	2250.7
17.5°	2201.2	2214.3	2202.2	2228.5	2232.5
20°	2146.7	2171.9	2169.9	2188.1	2182.0
22.5°	2102.3	2118.4	2118.4	2140.6	2158.8
25°	2057.8	2061.9	2056.8	2104.3	2096.2
27.5°	2000.3	1997.2	2013.4	2037.6	2053.8
30°	1918.5	1919.5	1941.7	1974.0	1989.2
32.5°	1843.8	1834.7	1861.9	1876.1	1859.9
35°	1749.9	1741.8	1742.8	1653.9	1601.4
37.5°	1621.6	1628.7	1535.8	1373.2	1304.6
40°	1453.0	1467.1	1282.4	1161.2	1122.8
42.5°	1249.0	1253.1	1051.1	1011.7	986.5
45°	1017.8	1062.2	885.5	874.4	838.1
47.5°	806.8	889.6	742.2	749.2	662.4
50°	656.3	739.1	644.2	647.2	517.0
52.5°	519.0	599.8	568.5	559.4	405.9
55°	400.9	479.6	490.7	486.7	317.1
57.5°	294.8	379.7	412.0	427.1	244.4
60°	216.1	310.0	341.3	371.6	184.8
62.5°	171.7	268.6	279.7	324.1	143.4
65°	150.4	247.4	222.1	280.7	113.1
67.5°	134.3	235.3	180.7	248.4	99.0
70°	121.2	212.0	156.5	222.1	93.9
72.5°	121.2	185.8	123.2	196.9	94.9
75°	110.1	158.5	84.8	166.6	94.9
77.5°	97.9	135.3	63.6	135.3	88.9
80°	84.8	106.0	52.5	104.0	79.8
82.5°	62.6	79.8	45.4	77.7	64.6
85°	40.4	65.6	46.4	56.5	45.4
87.5°	19.2	33.3	29.3	28.3	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)