

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: P291417

Luminaire Tested: **14GR-LD5-36-A19/156-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291417
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-LD5-36-A19/156-UNV-L82765-W2A1-U-5000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3659.0 lumens
Efficiency: N/A
Efficacy: 122.2 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

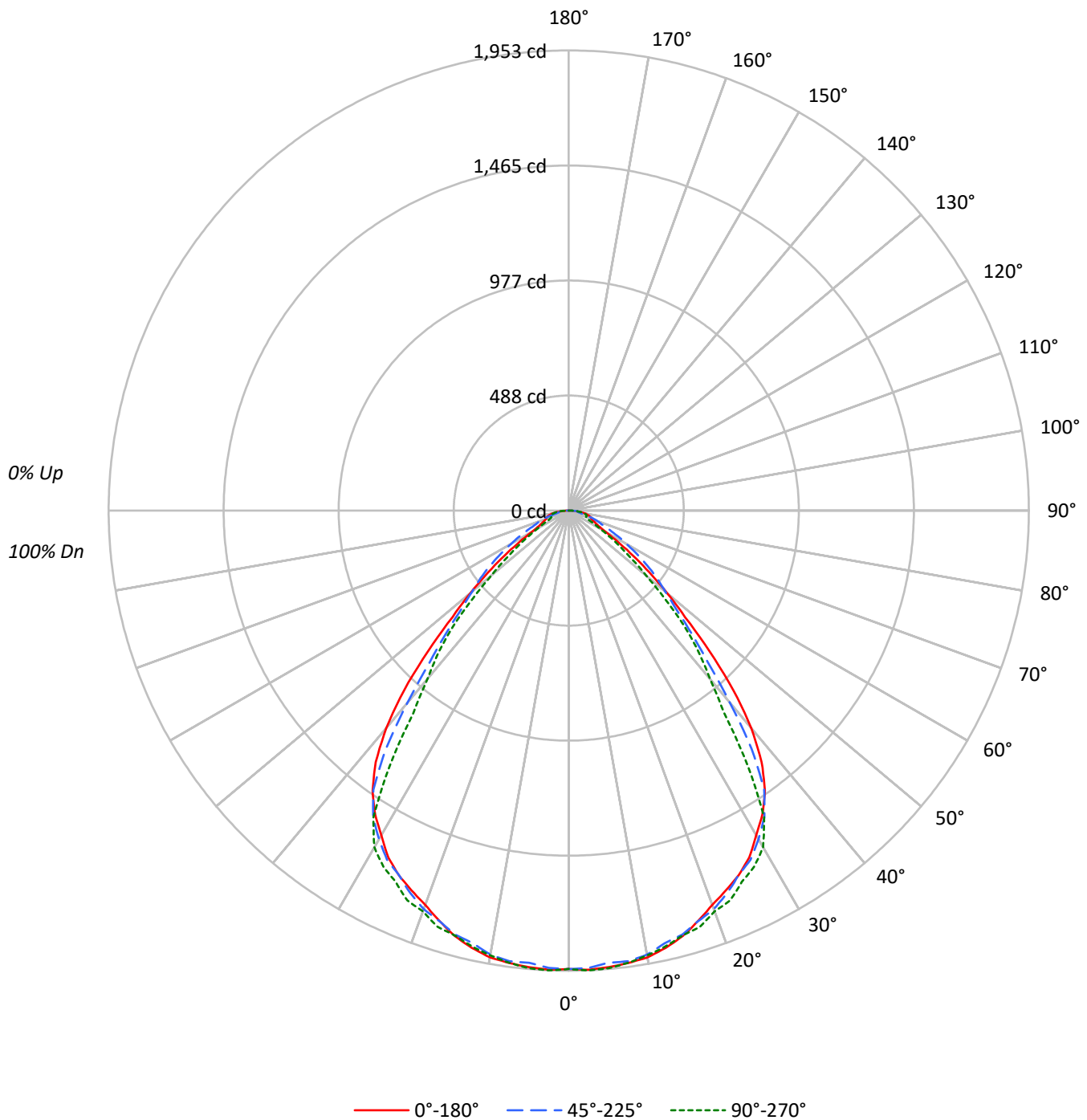
Input Watts (W): 29.946
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5236	5236	5236
5°	5254	5204	5265
10°	5262	5230	5239
15°	5208	5190	5201
20°	5099	5155	5183
25°	5068	5066	5163
30°	4945	5005	5127
35°	4768	4749	4364
40°	4234	3737	3272
45°	3213	2796	2646
50°	2279	2237	1795
55°	1560	1910	1234
60°	964	1524	825
65°	795	1174	597
70°	791	1021	613
75°	949	732	818
80°	1091	676	1026
85°	1034	1189	1164



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.6	5.0
10°-20°	526.9	14.4
20°-30°	792.4	21.7
30°-40°	863.8	23.6
40°-50°	604.9	16.5
50°-60°	342.4	9.4
60°-70°	187.3	5.1
70°-80°	113.5	3.1
80°-90°	43.1	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°	1503.9	41.1
0°-40°	2367.8	64.7
0°-60°	3315.1	90.6
0°-90°	3659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3659.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1945	1942	1926	1949	1949	185
15°	1870	1864	1863	1890	1867	526
25°	1707	1710	1706	1746	1739	784
35°	1452	1445	1446	1372	1328	894
45°	844	881	735	725	695	656
55°	332	398	407	404	263	304
65°	125	205	184	233	94	128
75°	91	132	70	138	79	95
85°	34	54	38	47	38	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1945.7	1945.7	1945.7	1945.7	1945.7
2.5°	1950.7	1948.2	1942.4	1954.1	1953.3
5°	1944.9	1941.5	1926.4	1949.1	1949.1
7.5°	1936.5	1928.1	1929.0	1941.5	1935.7
10°	1925.6	1911.4	1913.9	1917.2	1917.2
12.5°	1900.5	1887.1	1880.4	1891.3	1894.6
15°	1869.5	1864.5	1862.8	1889.6	1867.0
17.5°	1825.9	1836.8	1826.8	1848.6	1851.9
20°	1780.7	1801.6	1800.0	1815.1	1810.0
22.5°	1743.9	1757.3	1757.3	1775.7	1790.8
25°	1707.0	1710.4	1706.2	1745.5	1738.8
27.5°	1659.3	1656.7	1670.1	1690.2	1703.7
30°	1591.4	1592.3	1610.7	1637.5	1650.0
32.5°	1529.4	1521.9	1544.5	1556.2	1542.8
35°	1451.5	1444.8	1445.7	1372.0	1328.4
37.5°	1345.2	1351.0	1274.0	1139.1	1082.2
40°	1205.3	1217.0	1063.7	963.2	931.4
42.5°	1036.1	1039.4	871.9	839.3	818.3
45°	844.3	881.1	734.6	725.4	695.2
47.5°	669.2	737.9	615.6	621.5	549.5
50°	544.4	613.1	534.4	536.9	428.8
52.5°	430.5	497.5	471.6	464.0	336.7
55°	332.5	397.9	407.1	403.7	263.0
57.5°	244.6	314.9	341.7	354.3	202.7
60°	179.2	257.1	283.1	308.2	153.3
62.5°	142.4	222.8	232.0	268.9	118.9
65°	124.8	205.2	184.3	232.8	93.8
67.5°	111.4	195.2	149.9	206.0	82.1
70°	100.5	175.9	129.8	184.3	77.9
72.5°	100.5	154.1	102.2	163.3	78.7
75°	91.3	131.5	70.4	138.2	78.7
77.5°	81.2	112.2	52.8	112.2	73.7
80°	70.4	87.9	43.6	86.3	66.2
82.5°	51.9	66.2	37.7	64.5	53.6
85°	33.5	54.4	38.5	46.9	37.7
87.5°	15.9	27.6	24.3	23.5	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)