

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: P291039

Luminaire Tested: **14GR-LD5-43-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291039
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33314)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-A-UNV-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4164.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

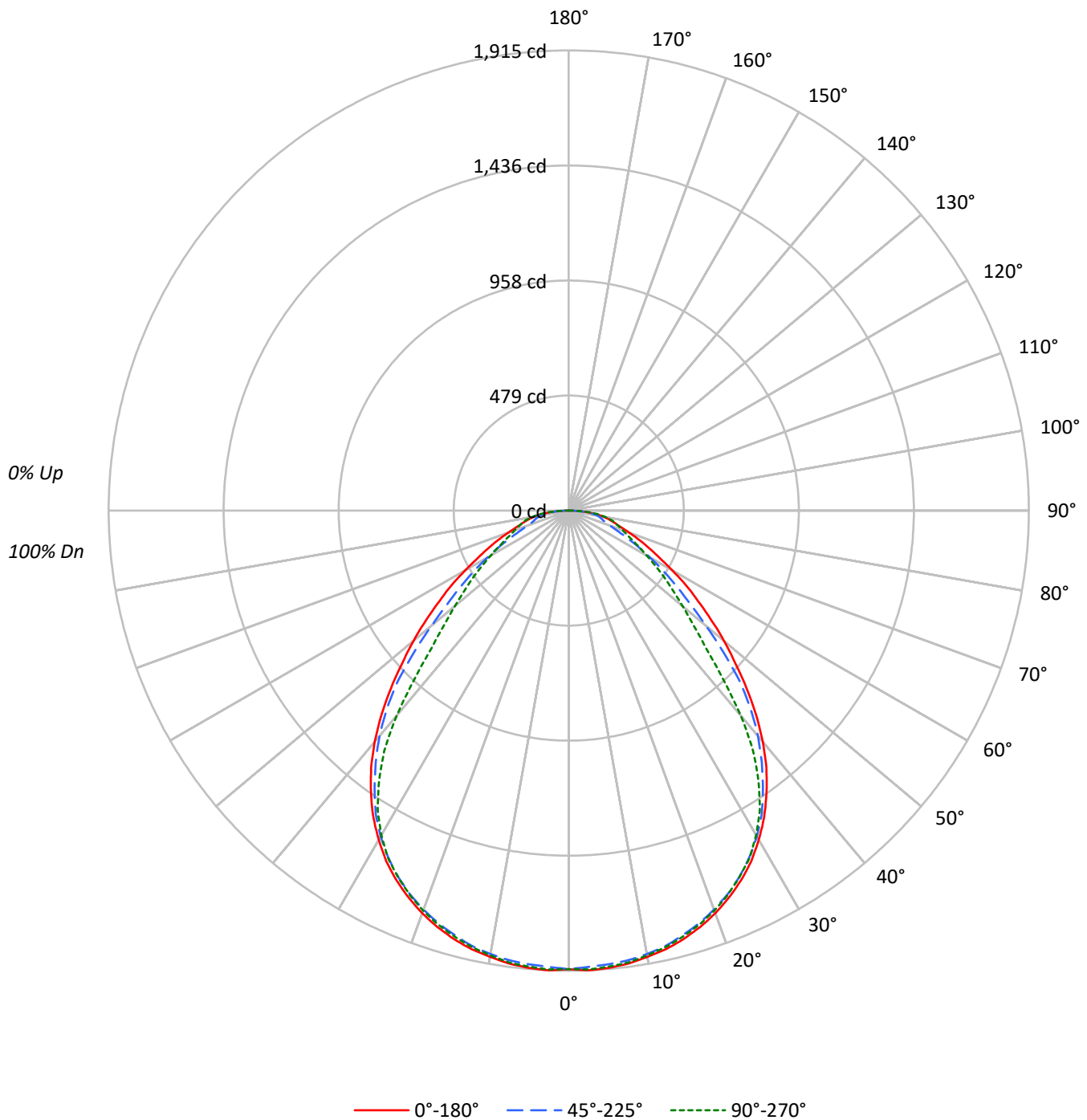
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	106	102	98	107	103	100	97		99	96	94		95	93	91		92	90	88
2	101	94	88	83	99	92	86	82		88	84	80		85	81	78		82	79	76
3	93	84	76	71	91	82	75	70		79	74	69		77	72	68		74	70	66
4	86	75	67	61	84	74	67	61		72	65	60		69	64	59		67	62	58
5	80	68	60	54	78	67	59	53		65	58	53		63	57	52		61	56	52
6	74	62	54	48	72	61	53	47		59	52	47		58	51	47		56	51	46
7	69	57	48	43	67	56	48	43		54	47	42		53	47	42		52	46	42
8	65	52	44	38	63	51	44	38		50	43	38		49	43	38		48	42	38
9	61	48	40	35	59	47	40	35		46	39	35		45	39	35		44	39	34
10	57	44	37	32	56	44	37	32		43	36	32		42	36	32		41	36	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5135	5135	5135
5°	5160	5121	5146
10°	5153	5122	5135
15°	5143	5098	5114
20°	5107	5060	5074
25°	5040	4991	4994
30°	4916	4865	4844
35°	4715	4629	4524
40°	4413	4301	3914
45°	3986	3835	3059
50°	3535	3113	2587
55°	3085	2555	2282
60°	2675	2103	2014
65°	2346	1687	1860
70°	2093	1430	1872
75°	2041	1509	2092
80°	2263	1903	2397
85°	2359	2032	2807



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	4.3
10°-20°	518.6	12.5
20°-30°	775.8	18.6
30°-40°	875.8	21.0
40°-50°	743.0	17.8
50°-60°	502.7	12.1
60°-70°	300.1	7.2
70°-80°	187.9	4.5
80°-90°	79.1	1.9
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°	1475.5	35.4
0°-40°	2351.3	56.5
0°-60°	3597.0	86.4
0°-90°	4164.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4164.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1908	1908	1908	1908	1908	
5°	1910	1904	1896	1909	1905	182
15°	1846	1842	1830	1842	1836	521
25°	1697	1692	1681	1689	1682	780
35°	1435	1426	1409	1396	1377	894
45°	1047	1051	1008	864	804	807
55°	658	627	544	487	486	592
65°	368	306	265	282	292	368
75°	196	175	145	192	201	211
85°	76	72	66	85	91	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1908.1	1908.1	1908.1	1908.1	1908.1
2.5°	1914.9	1909.1	1900.4	1912.0	1911.0
5°	1910.1	1904.3	1895.6	1909.1	1905.2
7.5°	1901.4	1896.5	1887.8	1900.4	1896.5
10°	1885.9	1882.0	1874.3	1884.9	1879.1
12.5°	1869.4	1866.5	1856.9	1866.5	1860.7
15°	1846.2	1842.4	1829.8	1842.4	1835.6
17.5°	1817.2	1812.4	1801.7	1812.4	1806.6
20°	1783.4	1777.6	1766.9	1777.6	1771.8
22.5°	1742.8	1737.9	1728.2	1737.9	1730.2
25°	1697.3	1691.5	1680.9	1688.6	1681.8
27.5°	1645.1	1637.3	1627.7	1633.5	1629.6
30°	1582.2	1572.5	1565.8	1565.8	1559.0
32.5°	1513.5	1506.8	1495.2	1488.4	1479.7
35°	1435.2	1425.5	1409.1	1396.5	1377.2
37.5°	1351.1	1339.5	1319.2	1287.2	1261.1
40°	1256.3	1241.8	1224.4	1161.5	1114.1
42.5°	1154.7	1151.8	1121.9	1014.5	948.7
45°	1047.4	1051.3	1007.7	863.6	803.7
47.5°	939.1	952.6	873.3	732.1	701.2
50°	844.3	849.1	743.7	635.4	618.0
52.5°	746.6	738.9	634.4	559.0	546.4
55°	657.6	626.7	544.5	487.4	486.5
57.5°	579.3	522.2	465.2	422.6	427.5
60°	497.1	433.3	390.7	367.5	374.3
62.5°	424.6	363.6	325.9	319.1	330.8
65°	368.5	305.6	265.0	282.4	292.1
67.5°	315.3	262.1	215.7	257.3	261.1
70°	266.0	227.3	181.8	236.9	237.9
72.5°	225.3	201.2	157.6	214.7	217.6
75°	196.3	175.0	145.1	191.5	201.2
77.5°	172.1	149.9	134.4	165.4	181.8
80°	146.0	120.9	122.8	138.3	154.7
82.5°	112.2	93.8	97.7	114.1	125.7
85°	76.4	72.5	65.8	85.1	90.9
87.5°	40.6	38.7	33.8	48.4	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)