

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: P290647

Luminaire Tested: **14GR-LD5-43-F1-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290647
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-43-F1-UNV-L82765-W2A1-U-3000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4119.0 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.15 / 1.23
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

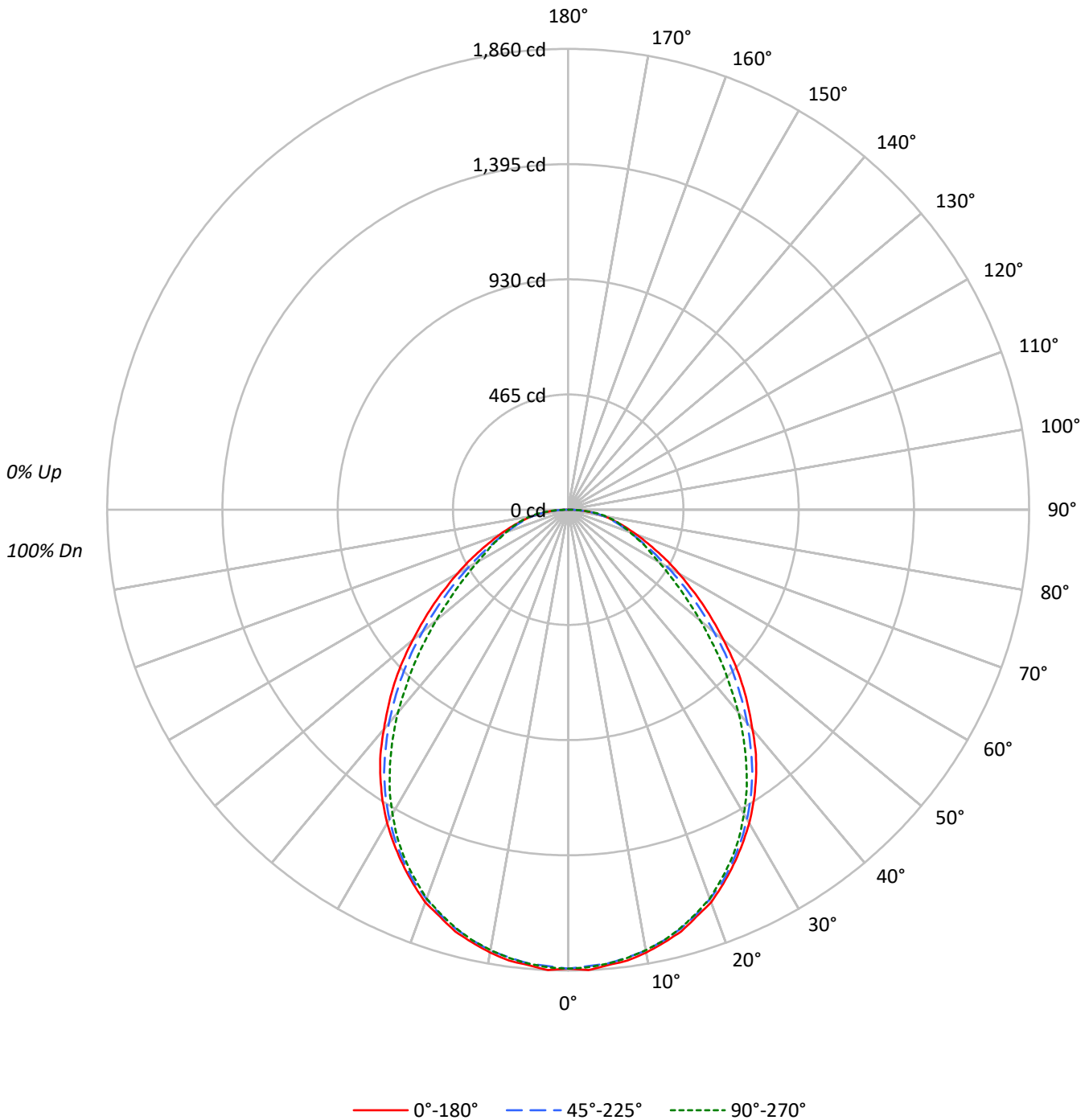
Input Watts (W): 36.27
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	88	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	64	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	64	57	51	62	55	51	60	54	50	48					48			
6	73	61	52	46	71	60	52	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	47	41	53	46	41	52	45	40	50	44	40	38					38			
8	64	51	43	37	62	50	42	37	49	42	37	47	41	36	46	41	36	34					34			
9	60	47	39	34	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	31	42	35	30	41	35	30	40	34	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4985	4985	4985
5°	4984	4966	4968
10°	4959	4935	4933
15°	4908	4879	4871
20°	4829	4788	4783
25°	4690	4659	4625
30°	4538	4483	4406
35°	4339	4255	4116
40°	4063	3950	3755
45°	3773	3604	3342
50°	3423	3209	2909
55°	3096	2835	2542
60°	2779	2485	2266
65°	2495	2218	2170
70°	2303	2065	2087
75°	2199	2071	2189
80°	2224	2210	2385
85°	2303	2272	2535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.9	4.2
10°-20°	494.4	12.0
20°-30°	722.0	17.5
30°-40°	804.5	19.5
40°-50°	724.9	17.6
50°-60°	541.8	13.2
60°-70°	357.4	8.7
70°-80°	218.2	5.3
80°-90°	80.9	2.0
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°	1391.2	33.8
0°-40°	2195.7	53.3
0°-60°	3462.5	84.1
0°-90°	4119.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4119.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1852	1852	1852	1852	1852	
5°	1845	1843	1838	1848	1839	175
15°	1762	1755	1751	1762	1749	496
25°	1580	1574	1569	1572	1558	727
35°	1321	1310	1295	1273	1253	824
45°	991	981	947	904	878	763
55°	660	650	604	554	542	591
65°	392	380	348	334	341	393
75°	212	208	199	206	210	226
85°	75	72	74	81	82	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1852.4	1852.4	1852.4	1852.4	1852.4
2.5°	1860.0	1851.5	1843.9	1855.3	1848.6
5°	1844.9	1843.0	1838.3	1847.7	1839.2
7.5°	1835.4	1828.8	1823.1	1834.5	1825.0
10°	1814.7	1810.9	1806.2	1815.6	1805.2
12.5°	1789.2	1785.4	1780.7	1792.0	1780.7
15°	1761.8	1755.2	1751.4	1761.8	1748.6
17.5°	1722.1	1719.3	1713.6	1724.0	1710.8
20°	1686.2	1675.9	1672.1	1679.6	1670.2
22.5°	1634.3	1626.8	1625.8	1630.5	1614.5
25°	1579.6	1573.9	1569.2	1572.0	1557.8
27.5°	1522.0	1514.4	1508.7	1507.8	1492.7
30°	1460.6	1451.2	1442.7	1435.1	1418.1
32.5°	1393.6	1382.2	1370.9	1358.6	1340.7
35°	1320.9	1309.5	1295.4	1272.7	1252.9
37.5°	1244.4	1231.2	1208.5	1182.1	1162.2
40°	1156.6	1150.0	1124.5	1090.5	1068.8
42.5°	1074.4	1066.9	1034.8	997.0	967.8
45°	991.4	981.0	947.0	903.5	878.1
47.5°	906.4	896.0	858.2	804.4	781.8
50°	817.6	812.0	766.6	717.6	694.9
52.5°	736.4	729.8	683.6	634.5	613.7
55°	660.0	649.6	604.3	554.2	541.9
57.5°	583.5	572.2	529.7	487.2	478.7
60°	516.4	502.3	461.7	428.6	421.1
62.5°	453.2	437.1	403.2	377.7	373.9
65°	391.8	379.5	348.4	334.2	340.8
67.5°	338.9	326.7	304.0	298.4	296.5
70°	292.7	281.4	262.5	264.4	265.3
72.5°	250.2	243.6	229.4	234.1	237.9
75°	211.5	207.7	199.2	205.8	210.5
77.5°	176.6	173.7	169.9	175.6	183.2
80°	143.5	141.6	142.6	146.3	153.9
82.5°	110.5	106.7	109.5	117.1	121.8
85°	74.6	71.8	73.6	81.2	82.1
87.5°	34.9	34.9	34.0	39.7	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)