

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: P290649

Luminaire Tested: **14GR-LD5-43-F1-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290649
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-4000K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4355.0 lumens
Efficiency: N/A
Efficacy: 117.7 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

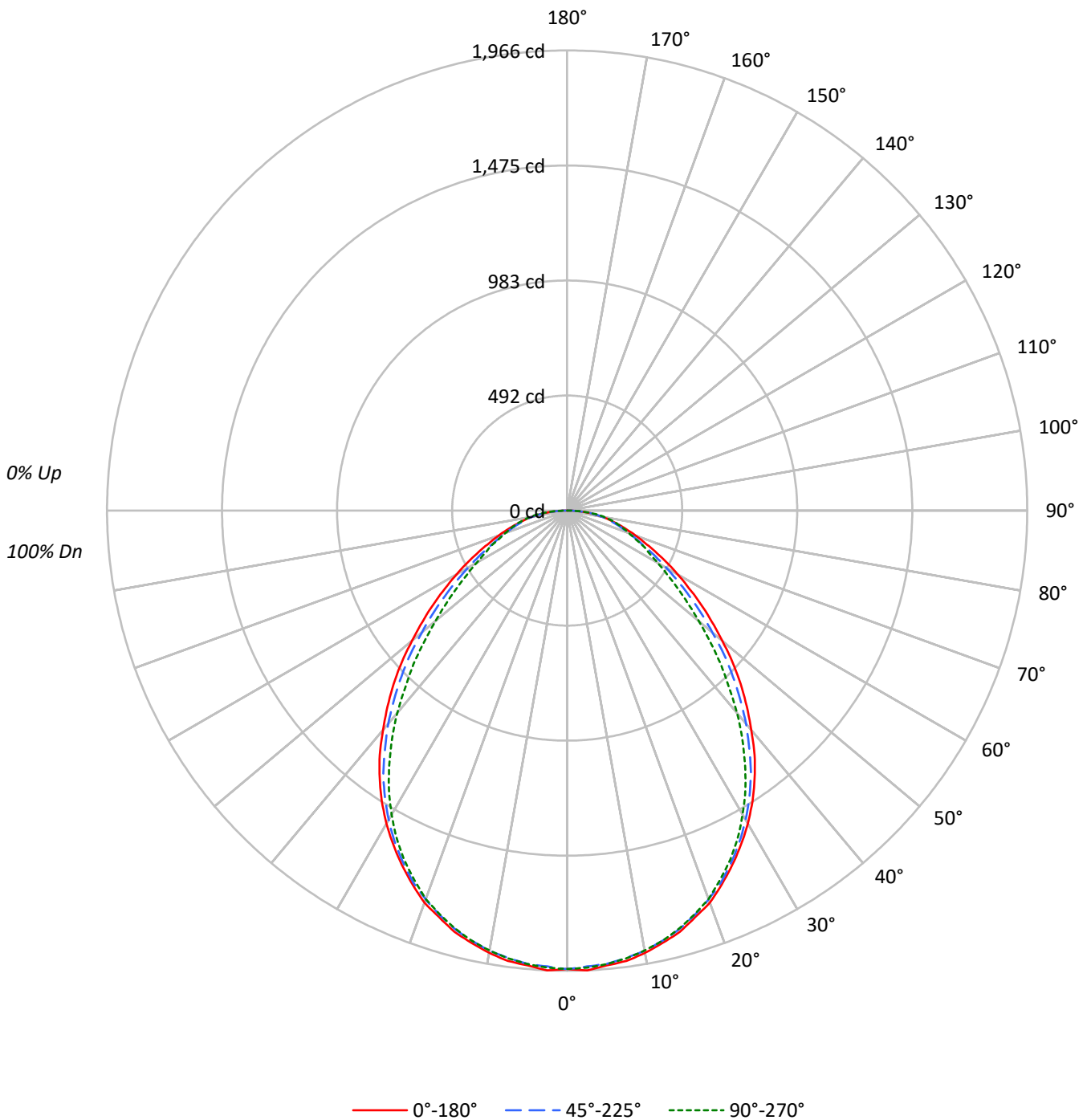
Input Watts (W): 37.014
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290649

CATALOG NUMBER: 14GR-LD5-43-F1-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P290649

CATALOG NUMBER: 14GR-LD5-43-F1-UNV-L82765-W2A1-U-4000K

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°	5271	5271	5271
5°	5269	5250	5253
10°	5243	5218	5215
15°	5189	5159	5150
20°	5106	5063	5057
25°	4959	4926	4891
30°	4799	4740	4659
35°	4588	4499	4352
40°	4295	4176	3969
45°	3989	3810	3533
50°	3619	3394	3076
55°	3274	2997	2688
60°	2939	2627	2396
65°	2638	2346	2295
70°	2435	2183	2207
75°	2325	2190	2314
80°	2351	2335	2521
85°	2436	2405	2680



TEST NUMBER: P290649

CATALOG NUMBER: 14GR-LD5-43-F1-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.9	4.2
10°-20°	522.7	12.0
20°-30°	763.4	17.5
30°-40°	850.6	19.5
40°-50°	766.4	17.6
50°-60°	572.9	13.2
60°-70°	377.9	8.7
70°-80°	230.7	5.3
80°-90°	85.6	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°	1471.0	33.8
0°-40°	2321.5	53.3
0°-60°	3660.8	84.1
0°-90°	4355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1959	1959	1959	1959	1959	
5°	1951	1949	1944	1954	1945	185
15°	1863	1856	1852	1863	1849	524
25°	1670	1664	1659	1662	1647	769
35°	1396	1385	1370	1346	1325	871
45°	1048	1037	1001	955	928	807
55°	698	687	639	586	573	625
65°	414	401	368	353	360	415
75°	224	220	211	218	223	239
85°	79	76	78	86	87	84
90°	0	0	0	0	0	



TEST NUMBER: P290649

CATALOG NUMBER: 14GR-LD5-43-F1-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1958.6	1958.6	1958.6	1958.6	1958.6
2.5°	1966.5	1957.6	1949.6	1961.5	1954.6
5°	1950.6	1948.6	1943.6	1953.6	1944.6
7.5°	1940.6	1933.6	1927.6	1939.6	1929.6
10°	1918.6	1914.6	1909.6	1919.6	1908.6
12.5°	1891.7	1887.7	1882.7	1894.7	1882.7
15°	1862.7	1855.7	1851.7	1862.7	1848.7
17.5°	1820.8	1817.8	1811.8	1822.8	1808.8
20°	1782.9	1771.9	1767.9	1775.9	1765.9
22.5°	1728.0	1720.0	1719.0	1724.0	1707.0
25°	1670.1	1664.1	1659.1	1662.1	1647.1
27.5°	1609.2	1601.2	1595.2	1594.2	1578.2
30°	1544.3	1534.3	1525.3	1517.3	1499.4
32.5°	1473.4	1461.4	1449.4	1436.5	1417.5
35°	1396.5	1384.6	1369.6	1345.6	1324.7
37.5°	1315.7	1301.7	1277.8	1249.8	1228.8
40°	1222.8	1215.9	1188.9	1153.0	1130.0
42.5°	1136.0	1128.0	1094.1	1054.1	1023.2
45°	1048.2	1037.2	1001.2	955.3	928.4
47.5°	958.3	947.3	907.4	850.5	826.5
50°	864.5	858.5	810.6	758.7	734.7
52.5°	778.6	771.6	722.7	670.8	648.9
55°	697.8	686.8	638.9	586.0	573.0
57.5°	616.9	604.9	560.0	515.1	506.1
60°	546.0	531.1	488.1	453.2	445.2
62.5°	479.2	462.2	426.2	399.3	395.3
65°	414.3	401.3	368.4	353.4	360.4
67.5°	358.4	345.4	321.4	315.4	313.4
70°	309.5	297.5	277.5	279.5	280.5
72.5°	264.5	257.5	242.6	247.6	251.6
75°	223.6	219.6	210.6	217.6	222.6
77.5°	186.7	183.7	179.7	185.7	193.7
80°	151.7	149.7	150.7	154.7	162.7
82.5°	116.8	112.8	115.8	123.8	128.8
85°	78.9	75.9	77.9	85.8	86.8
87.5°	36.9	36.9	35.9	41.9	41.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)