

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: P292989

Luminaire Tested: **24GR-LD5-42-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292989
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-F1-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4382.0 lumens
Efficiency: N/A
Efficacy: 150.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

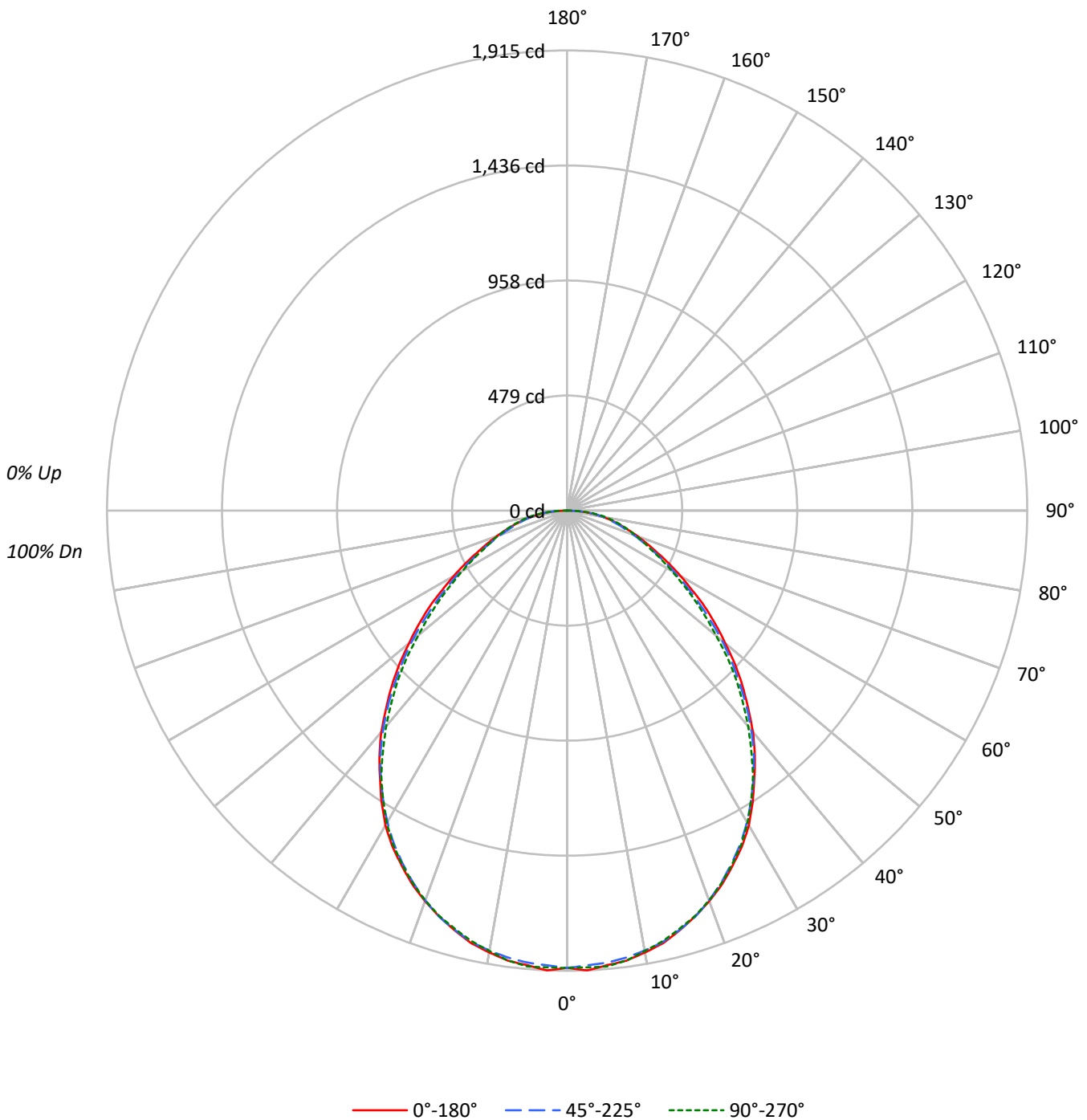
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P292989

CATALOG NUMBER: 24GR-LD5-42-F1-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P292989

CATALOG NUMBER: 24GR-LD5-42-F1-UNV-L82765-W2A1-U-6500K

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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72					72			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	50	44	39	37					37			
8	63	50	42	36	62	49	42	36	48	41	36	47	40	36	46	40	36	34					34			
9	59	46	38	33	58	46	38	33	44	38	33	43	37	32	42	37	32	31					31			
10	56	43	35	30	54	42	35	30	41	34	30	40	34	30	39	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2561	2561	2561
5°	2565	2550	2572
10°	2551	2540	2543
15°	2519	2517	2510
20°	2477	2472	2472
25°	2419	2406	2411
30°	2349	2325	2332
35°	2231	2221	2215
40°	2113	2094	2057
45°	1964	1930	1892
50°	1799	1759	1693
55°	1643	1569	1516
60°	1464	1394	1357
65°	1318	1249	1231
70°	1223	1148	1195
75°	1170	1118	1212
80°	1169	1169	1296
85°	1213	1227	1368



TEST NUMBER: P292989

CATALOG NUMBER: 24GR-LD5-42-F1-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	179.8	4.1
10°-20°	508.7	11.6
20°-30°	746.6	17.0
30°-40°	844.1	19.3
40°-50°	780.1	17.8
50°-60°	601.0	13.7
60°-70°	398.0	9.1
70°-80°	236.9	5.4
80°-90°	86.8	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°	1435.1	32.7
0°-40°	2279.2	52.0
0°-60°	3660.3	83.5
0°-90°	4382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4382.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1903	1903	1903	1903	1903	
5°	1899	1899	1888	1889	1904	180
15°	1808	1805	1807	1806	1802	510
25°	1630	1625	1620	1619	1624	750
35°	1358	1357	1352	1346	1348	850
45°	1032	1025	1014	996	994	795
55°	700	686	669	651	646	625
65°	414	408	392	389	387	415
75°	225	220	215	225	233	240
85°	79	74	80	88	89	83
90°	0	0	0	0	0	



TEST NUMBER: P292989

CATALOG NUMBER: 24GR-LD5-42-F1-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1903.4	1903.4	1903.4	1903.4	1903.4
2.5°	1915.2	1905.2	1894.4	1894.4	1902.5
5°	1898.9	1898.9	1888.1	1889.0	1904.3
7.5°	1889.0	1883.6	1876.3	1876.3	1888.1
10°	1867.3	1862.8	1859.1	1857.3	1861.0
12.5°	1843.8	1836.6	1839.3	1836.6	1835.7
15°	1808.5	1804.9	1806.7	1805.8	1802.2
17.5°	1770.6	1768.8	1772.4	1766.1	1768.8
20°	1729.9	1724.5	1726.3	1722.7	1726.3
22.5°	1683.8	1680.2	1675.7	1671.2	1678.4
25°	1629.6	1625.1	1620.5	1618.7	1624.2
27.5°	1575.4	1568.1	1561.8	1560.0	1568.1
30°	1512.1	1504.0	1496.7	1494.9	1501.2
32.5°	1437.1	1435.3	1426.2	1422.6	1425.3
35°	1358.4	1356.6	1352.1	1345.8	1348.5
37.5°	1283.4	1282.5	1276.2	1265.3	1258.1
40°	1203.0	1196.7	1192.1	1176.8	1171.3
42.5°	1114.4	1112.6	1104.5	1087.3	1081.0
45°	1032.2	1024.9	1014.1	996.0	994.2
47.5°	947.2	937.3	927.3	904.7	903.8
50°	859.5	852.3	840.5	818.0	808.9
52.5°	778.2	768.2	752.0	730.3	725.8
55°	700.5	686.0	668.8	650.7	646.2
57.5°	617.3	611.0	590.2	575.7	570.3
60°	544.1	538.7	517.9	504.3	504.3
62.5°	478.1	470.0	451.9	442.9	442.9
65°	413.9	407.6	392.3	388.6	386.8
67.5°	358.8	350.7	339.8	338.9	343.5
70°	310.9	301.0	291.9	301.0	303.7
72.5°	265.7	259.4	251.3	263.0	268.4
75°	225.1	219.6	215.1	225.1	233.2
77.5°	188.0	182.6	182.6	193.4	200.6
80°	150.9	147.3	150.9	160.0	167.2
82.5°	115.7	113.0	117.5	126.5	131.1
85°	78.6	74.1	79.5	87.7	88.6
87.5°	37.1	36.2	39.8	45.2	44.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)