

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: P293005

Luminaire Tested: **24GR-LD5-56-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293005
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-LD5-56-F1-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5859.0 lumens
Efficiency: N/A
Efficacy: 146.2 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

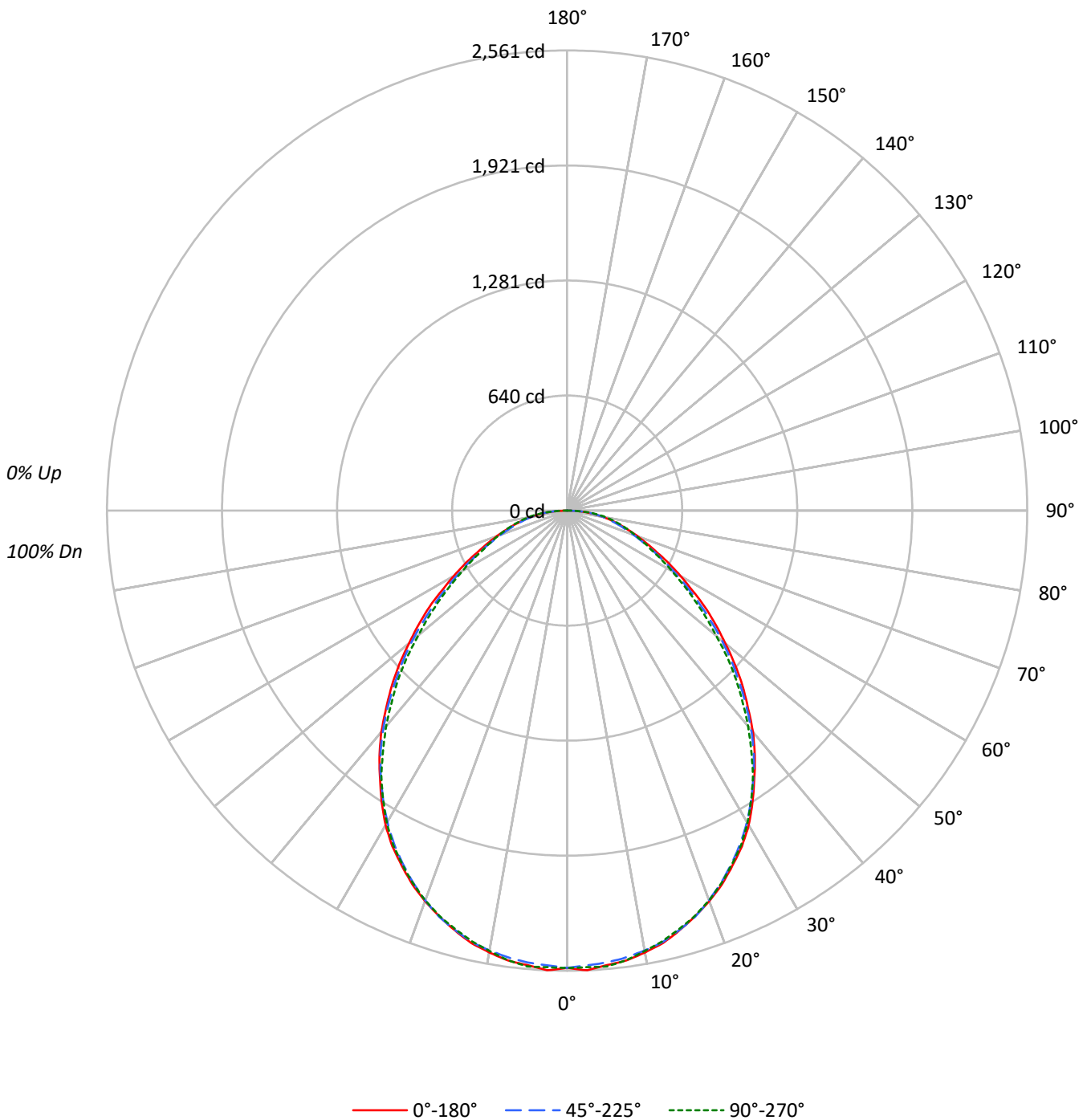
Input Watts (W): 40.083
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293005

CATALOG NUMBER: 24GR-LD5-56-F1-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P293005

CATALOG NUMBER: 24GR-LD5-56-F1-UNV-L82765-W2A1-U-5500K

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°	3424	3424	3424
5°	3429	3410	3439
10°	3411	3396	3399
15°	3368	3365	3357
20°	3312	3305	3305
25°	3235	3217	3224
30°	3141	3109	3118
35°	2983	2970	2961
40°	2825	2800	2751
45°	2626	2580	2529
50°	2406	2353	2264
55°	2197	2098	2027
60°	1958	1863	1815
65°	1762	1670	1647
70°	1635	1535	1597
75°	1564	1495	1621
80°	1564	1564	1733
85°	1623	1641	1828



TEST NUMBER: P293005

CATALOG NUMBER: 24GR-LD5-56-F1-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	4.1
10°-20°	680.2	11.6
20°-30°	998.2	17.0
30°-40°	1128.6	19.3
40°-50°	1043.1	17.8
50°-60°	803.6	13.7
60°-70°	532.1	9.1
70°-80°	316.8	5.4
80°-90°	116.0	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°	1918.8	32.7
0°-40°	3047.4	52.0
0°-60°	4894.0	83.5
0°-90°	5859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2545	2545	2545	2545	2545	
5°	2539	2539	2524	2526	2546	241
15°	2418	2413	2416	2414	2410	682
25°	2179	2173	2167	2164	2172	1003
35°	1816	1814	1808	1799	1803	1137
45°	1380	1370	1356	1332	1329	1063
55°	937	917	894	870	864	835
65°	554	545	524	520	517	555
75°	301	294	288	301	312	321
85°	105	99	106	117	118	112
90°	0	0	0	0	0	



TEST NUMBER: P293005

CATALOG NUMBER: 24GR-LD5-56-F1-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2545.0	2545.0	2545.0	2545.0	2545.0
2.5°	2560.7	2547.4	2532.9	2532.9	2543.8
5°	2539.0	2539.0	2524.5	2525.7	2546.2
7.5°	2525.7	2518.4	2508.8	2508.8	2524.5
10°	2496.7	2490.6	2485.8	2483.4	2488.2
12.5°	2465.3	2455.6	2459.2	2455.6	2454.4
15°	2418.1	2413.3	2415.7	2414.5	2409.7
17.5°	2367.4	2365.0	2369.8	2361.3	2365.0
20°	2313.0	2305.7	2308.2	2303.3	2308.2
22.5°	2251.4	2246.5	2240.5	2234.4	2244.1
25°	2178.8	2172.8	2166.8	2164.3	2171.6
27.5°	2106.3	2096.7	2088.2	2085.8	2096.7
30°	2021.7	2010.9	2001.2	1998.8	2007.2
32.5°	1921.4	1919.0	1906.9	1902.1	1905.7
35°	1816.3	1813.9	1807.9	1799.4	1803.0
37.5°	1716.0	1714.8	1706.3	1691.8	1682.2
40°	1608.5	1600.0	1594.0	1573.4	1566.2
42.5°	1490.0	1487.6	1476.7	1453.8	1445.3
45°	1380.1	1370.4	1355.9	1331.7	1329.3
47.5°	1266.5	1253.2	1239.9	1209.7	1208.5
50°	1149.2	1139.6	1123.9	1093.7	1081.6
52.5°	1040.5	1027.2	1005.4	976.4	970.4
55°	936.6	917.2	894.3	870.1	864.0
57.5°	825.4	816.9	789.1	769.8	762.5
60°	727.5	720.2	692.4	674.3	674.3
62.5°	639.3	628.4	604.2	592.1	592.1
65°	553.5	545.0	524.5	519.6	517.2
67.5°	479.8	468.9	454.4	453.2	459.2
70°	415.7	402.4	390.3	402.4	406.0
72.5°	355.3	346.8	336.0	351.7	358.9
75°	300.9	293.7	287.6	300.9	311.8
77.5°	251.4	244.1	244.1	258.6	268.3
80°	201.8	197.0	201.8	213.9	223.6
82.5°	154.7	151.1	157.1	169.2	175.2
85°	105.1	99.1	106.3	117.2	118.4
87.5°	49.5	48.3	53.2	60.4	59.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)