

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: P293259

Luminaire Tested: **24GR-LD5-56-F125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-56-F125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5890.0 lumens
Efficiency: N/A
Efficacy: 144.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

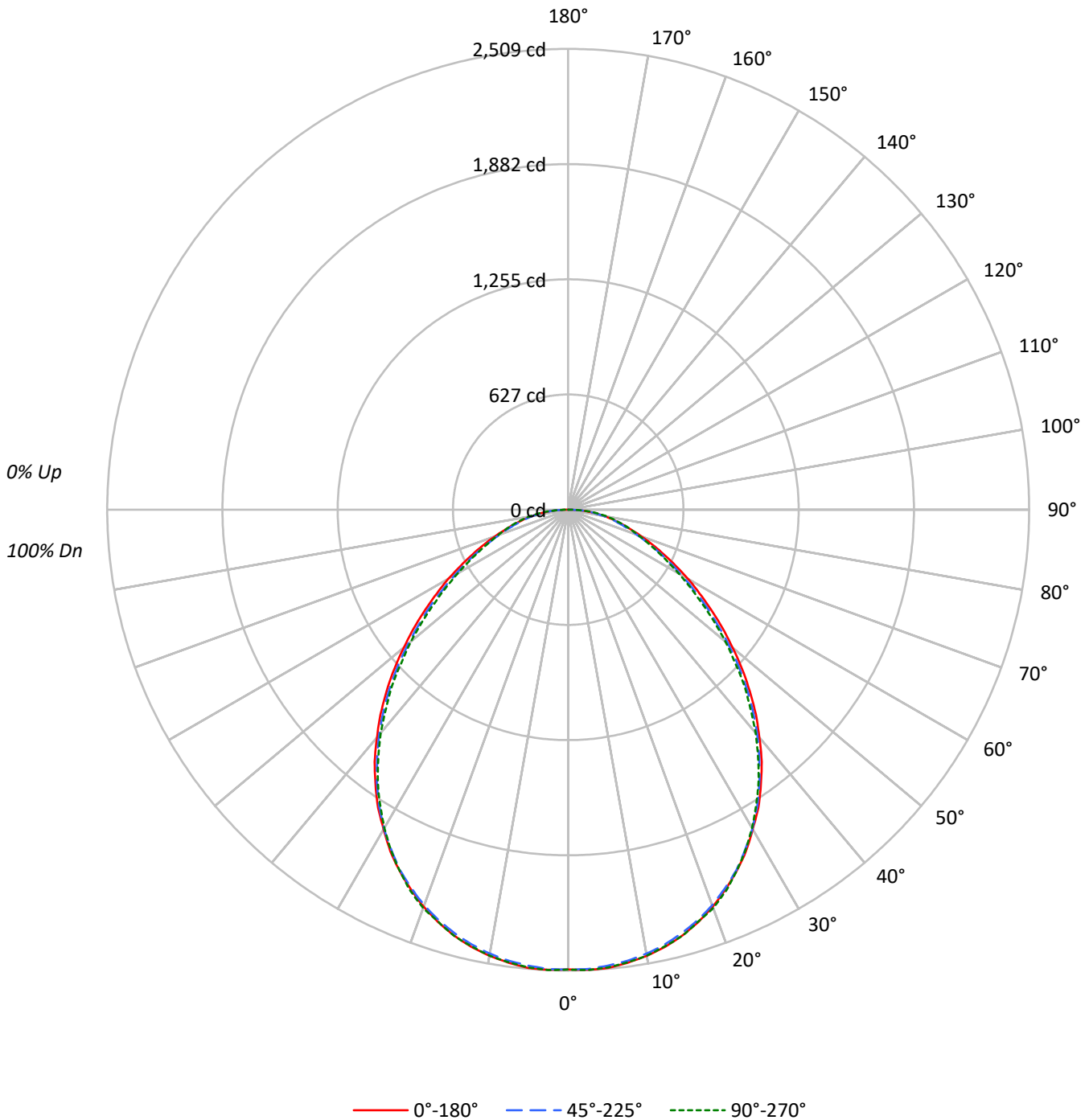
Input Watts (W): 40.734
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293259

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L82765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P293259

CATALOG NUMBER: 24GR-LD5-56-F125-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	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72					72			
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	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	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33					33			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3368	3368	3368
5°	3383	3365	3378
10°	3370	3353	3368
15°	3343	3325	3346
20°	3294	3281	3305
25°	3223	3215	3222
30°	3121	3115	3108
35°	3003	2981	2968
40°	2843	2810	2788
45°	2659	2610	2579
50°	2444	2378	2337
55°	2229	2147	2084
60°	2024	1915	1865
65°	1823	1720	1691
70°	1670	1561	1604
75°	1560	1488	1599
80°	1548	1519	1669
85°	1578	1592	1819



TEST NUMBER: P293259

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L82765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.9	4.0
10°-20°	673.5	11.4
20°-30°	995.0	16.9
30°-40°	1131.2	19.2
40°-50°	1056.4	17.9
50°-60°	821.5	13.9
60°-70°	545.1	9.3
70°-80°	315.5	5.4
80°-90°	114.7	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°	1905.5	32.4
0°-40°	3036.7	51.6
0°-60°	4914.7	83.4
0°-90°	5890.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5890.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2503	2503	2503	2503	2503	
5°	2505	2492	2491	2496	2501	238
15°	2400	2388	2387	2386	2402	676
25°	2171	2162	2165	2161	2170	998
35°	1828	1819	1815	1802	1807	1142
45°	1398	1386	1372	1354	1355	1077
55°	950	936	915	891	888	852
65°	573	555	540	530	531	572
75°	300	293	286	299	308	321
85°	102	100	103	117	118	111
90°	0	0	0	0	0	



TEST NUMBER: P293259

CATALOG NUMBER: 24GR-LD5-56-F125-UNV-L82765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2503.2	2503.2	2503.2	2503.2	2503.2
2.5°	2506.9	2499.6	2503.2	2500.5	2508.8
5°	2505.1	2492.2	2491.3	2495.9	2501.4
7.5°	2487.6	2473.8	2476.6	2476.6	2485.8
10°	2466.4	2452.6	2454.5	2455.4	2465.5
12.5°	2437.9	2424.1	2425.0	2424.1	2434.2
15°	2400.1	2388.2	2387.2	2386.3	2402.0
17.5°	2354.1	2337.5	2343.1	2344.0	2352.3
20°	2300.7	2287.8	2291.5	2290.6	2308.1
22.5°	2237.2	2228.0	2230.7	2228.9	2245.5
25°	2170.9	2161.7	2165.4	2160.8	2170.0
27.5°	2096.3	2089.9	2086.2	2083.4	2089.9
30°	2008.9	2005.2	2005.2	1993.2	2000.6
32.5°	1926.0	1914.0	1914.0	1909.4	1904.8
35°	1828.4	1819.2	1814.6	1801.7	1807.2
37.5°	1730.8	1709.6	1707.8	1697.7	1697.7
40°	1618.5	1606.5	1600.1	1589.0	1587.2
42.5°	1511.7	1499.7	1488.7	1470.3	1466.6
45°	1397.5	1386.5	1371.8	1354.3	1355.2
47.5°	1284.3	1268.7	1254.8	1233.7	1230.9
50°	1167.4	1156.3	1136.1	1117.7	1116.7
52.5°	1057.8	1040.3	1021.9	999.8	999.8
55°	950.1	936.3	915.1	891.2	888.4
57.5°	847.0	834.1	810.2	792.7	788.1
60°	752.2	733.8	711.7	696.9	693.2
62.5°	657.3	640.8	624.2	609.5	608.6
65°	572.6	555.2	540.4	530.3	531.2
67.5°	496.2	481.5	464.9	462.2	463.1
70°	424.4	408.8	396.8	403.2	407.8
72.5°	356.3	348.0	339.7	348.9	355.4
75°	300.1	292.8	286.3	299.2	307.5
77.5°	248.6	243.1	242.1	253.2	260.5
80°	199.8	193.3	196.1	209.0	215.4
82.5°	151.9	147.3	148.2	163.9	168.5
85°	102.2	100.4	103.1	116.9	117.8
87.5°	54.3	54.3	56.2	64.4	61.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)