

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: P293635

Luminaire Tested: **24GR-LD5-56-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-56-A-UNV-L92765-W2A1-U-5500K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH A LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5351.0 lumens  
Efficiency: N/A  
Efficacy: 133.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

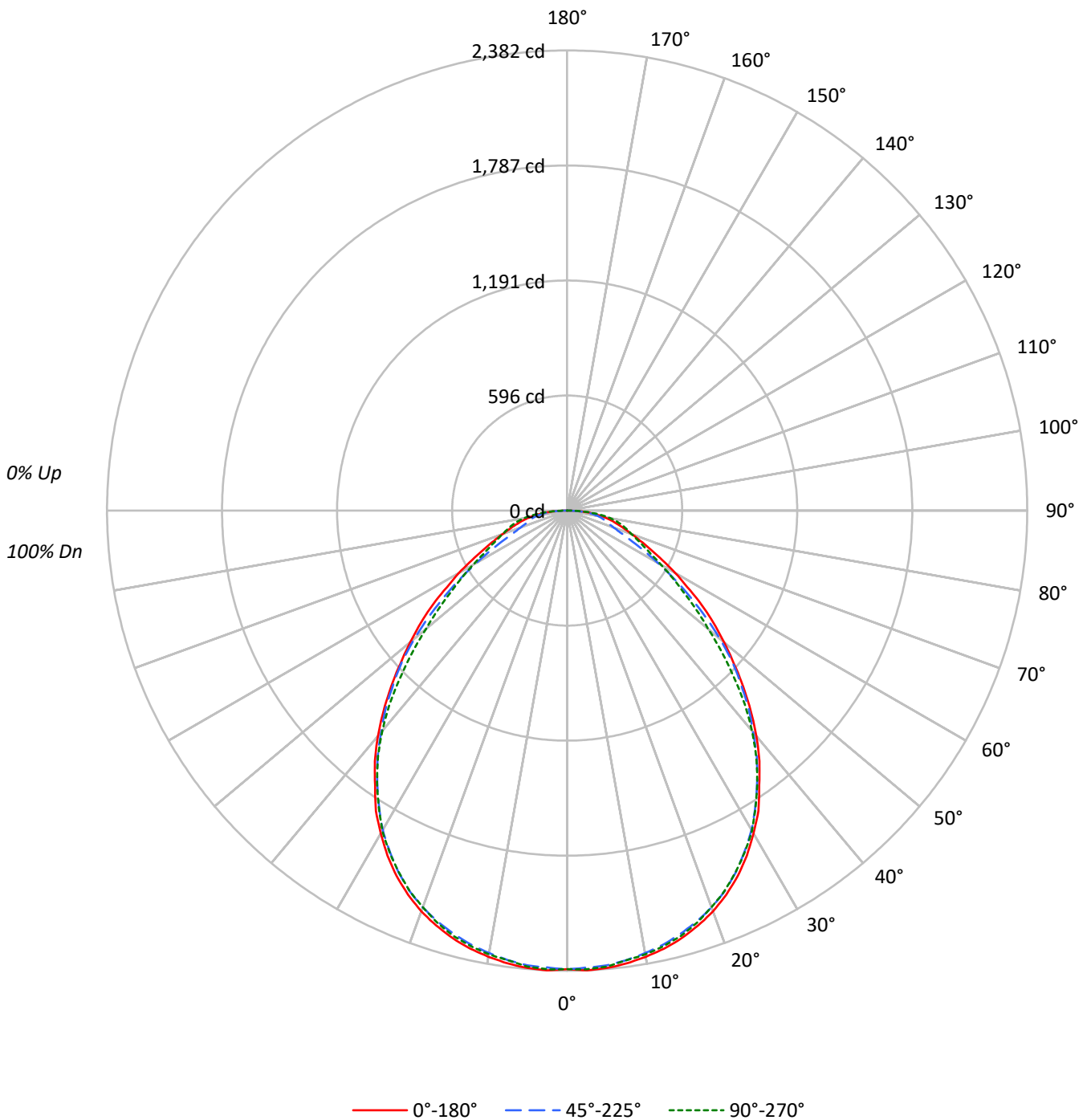
Input Watts (W): 40.083  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3194	3194	3194
5°	3210	3192	3200
10°	3204	3178	3187
15°	3192	3160	3174
20°	3162	3130	3128
25°	3100	3067	3064
30°	2998	2967	2973
35°	2847	2815	2819
40°	2677	2631	2615
45°	2454	2421	2325
50°	2218	2158	1995
55°	1992	1813	1720
60°	1744	1459	1513
65°	1521	1147	1392
70°	1392	1002	1392
75°	1392	1066	1534
80°	1512	1255	1749
85°	1660	1417	1876



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	224.8	4.2
10°-20°	641.6	12.0
20°-30°	951.4	17.8
30°-40°	1073.3	20.1
40°-50°	972.1	18.2
50°-60°	701.3	13.1
60°-70°	418.7	7.8
70°-80°	258.8	4.8
80°-90°	109.0	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°	1817.8	34.0
0°-40°	2891.1	54.0
0°-60°	4564.5	85.3
0°-90°	5351.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5351.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2374	2374	2374	2374	2374	
5°	2377	2373	2363	2361	2369	226
15°	2292	2278	2268	2269	2278	646
25°	2088	2077	2066	2058	2064	959
35°	1734	1731	1714	1714	1716	1085
45°	1290	1281	1272	1241	1222	994
55°	849	822	773	735	733	758
65°	478	421	360	409	437	481
75°	268	232	205	255	295	286
85°	108	94	92	120	122	112
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2374.2	2374.2	2374.2	2374.2	2374.2
2.5°	2382.4	2375.8	2367.6	2372.5	2376.7
5°	2376.7	2373.3	2363.4	2361.0	2369.2
7.5°	2364.3	2356.0	2346.9	2351.0	2347.7
10°	2345.2	2337.8	2326.2	2327.1	2332.8
12.5°	2322.1	2313.0	2300.6	2303.9	2308.9
15°	2291.5	2277.5	2268.4	2269.2	2278.3
17.5°	2252.7	2241.9	2230.3	2232.8	2237.0
20°	2208.0	2202.2	2185.7	2180.7	2184.9
22.5°	2151.8	2141.1	2132.0	2129.5	2130.3
25°	2088.2	2076.6	2065.8	2058.4	2064.2
27.5°	2013.8	2003.8	1989.8	1987.3	1992.3
30°	1929.4	1922.0	1909.6	1906.3	1913.7
32.5°	1843.5	1831.1	1813.7	1813.7	1815.4
35°	1733.5	1731.0	1713.7	1714.5	1716.2
37.5°	1634.3	1622.7	1612.8	1602.9	1607.9
40°	1524.4	1511.1	1497.9	1491.3	1488.8
42.5°	1406.2	1396.2	1390.4	1366.5	1360.7
45°	1289.6	1281.3	1272.2	1240.8	1221.8
47.5°	1170.6	1168.9	1161.5	1106.1	1087.1
50°	1059.8	1057.3	1030.8	972.2	953.1
52.5°	954.8	938.3	903.5	845.7	842.4
55°	849.0	822.5	772.9	734.9	733.3
57.5°	737.4	706.0	655.5	634.9	645.6
60°	648.1	600.2	542.3	544.8	562.1
62.5°	555.5	501.8	444.7	469.5	490.2
65°	477.8	420.8	360.4	409.2	437.3
67.5°	410.0	357.1	299.3	364.6	391.8
70°	353.8	310.8	254.6	323.2	353.8
72.5°	309.2	269.5	225.7	290.2	325.7
75°	267.8	232.3	205.0	255.4	295.1
77.5°	232.3	197.6	185.2	225.7	264.5
80°	195.1	163.7	162.0	196.7	225.7
82.5°	152.1	130.6	130.6	164.5	181.9
85°	107.5	94.2	91.8	119.9	121.5
87.5°	55.4	52.9	47.9	62.8	62.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)