

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: P293255

Luminaire Tested: **24GR-LD5-56-F125-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293255
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5724.0 lumens
Efficiency: N/A
Efficacy: 144.1 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

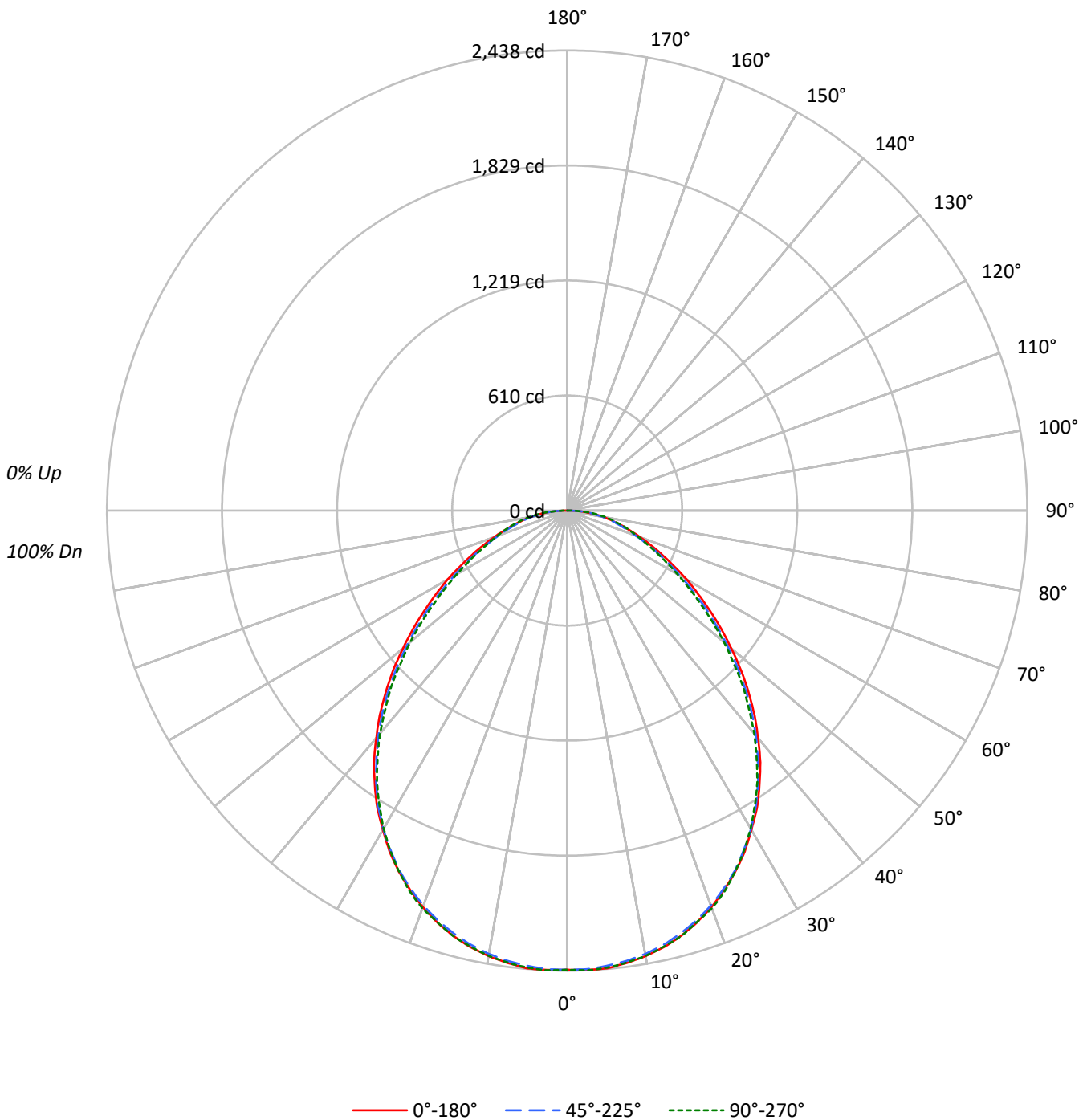
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3273	3273	3273
5°	3288	3270	3283
10°	3275	3259	3274
15°	3249	3232	3252
20°	3201	3189	3212
25°	3132	3124	3131
30°	3033	3028	3021
35°	2919	2897	2885
40°	2763	2731	2709
45°	2584	2537	2506
50°	2375	2311	2272
55°	2166	2086	2025
60°	1967	1861	1813
65°	1772	1672	1643
70°	1623	1517	1559
75°	1516	1447	1553
80°	1505	1477	1623
85°	1533	1547	1768



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.2	4.0
10°-20°	654.6	11.4
20°-30°	967.0	16.9
30°-40°	1099.4	19.2
40°-50°	1026.7	17.9
50°-60°	798.4	13.9
60°-70°	529.7	9.3
70°-80°	306.6	5.4
80°-90°	111.5	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°	1851.8	32.4
0°-40°	2951.1	51.6
0°-60°	4776.2	83.4
0°-90°	5724.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5724.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2433	2433	2433	2433	2433	
5°	2434	2422	2421	2426	2431	231
15°	2332	2321	2320	2319	2334	657
25°	2110	2101	2104	2100	2109	970
35°	1777	1768	1764	1751	1756	1109
45°	1358	1347	1333	1316	1317	1046
55°	923	910	889	866	863	828
65°	556	540	525	515	516	556
75°	292	284	278	291	299	312
85°	99	98	100	114	114	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2432.7	2432.7	2432.7	2432.7	2432.7
2.5°	2436.3	2429.1	2432.7	2430.0	2438.1
5°	2434.5	2422.0	2421.1	2425.5	2430.9
7.5°	2417.5	2404.1	2406.8	2406.8	2415.7
10°	2396.9	2383.5	2385.3	2386.2	2396.0
12.5°	2369.2	2355.8	2356.6	2355.8	2365.6
15°	2332.5	2320.9	2320.0	2319.1	2334.3
17.5°	2287.8	2271.7	2277.0	2277.9	2286.0
20°	2235.9	2223.3	2226.9	2226.0	2243.0
22.5°	2174.1	2165.2	2167.9	2166.1	2182.2
25°	2109.7	2100.8	2104.3	2099.9	2108.8
27.5°	2037.2	2031.0	2027.4	2024.7	2031.0
30°	1952.2	1948.7	1948.7	1937.0	1944.2
32.5°	1871.7	1860.1	1860.1	1855.6	1851.1
35°	1776.9	1767.9	1763.5	1750.9	1756.3
37.5°	1682.0	1661.5	1659.7	1649.8	1649.8
40°	1572.9	1561.3	1555.0	1544.3	1542.5
42.5°	1469.1	1457.5	1446.7	1428.8	1425.3
45°	1358.2	1347.4	1333.1	1316.1	1317.0
47.5°	1248.1	1232.9	1219.5	1198.9	1196.2
50°	1134.5	1123.7	1104.1	1086.2	1085.3
52.5°	1028.0	1011.0	993.1	971.6	971.6
55°	923.3	909.9	889.3	866.1	863.4
57.5°	823.1	810.6	787.3	770.3	765.9
60°	731.0	713.1	691.6	677.3	673.7
62.5°	638.8	622.7	606.6	592.3	591.4
65°	556.5	539.5	525.2	515.3	516.2
67.5°	482.2	467.9	451.8	449.1	450.0
70°	412.5	397.2	385.6	391.9	396.4
72.5°	346.3	338.2	330.1	339.1	345.4
75°	291.7	284.5	278.3	290.8	298.8
77.5°	241.6	236.2	235.3	246.0	253.2
80°	194.2	187.9	190.6	203.1	209.4
82.5°	147.6	143.2	144.0	159.3	163.7
85°	99.3	97.5	100.2	113.6	114.5
87.5°	52.8	52.8	54.6	62.6	59.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)