

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: P292996

Luminaire Tested: **24GR-LD5-48-F1-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292996
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-LD5-48-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: 5042.0 lumens
Efficiency: N/A
Efficacy: 149.4 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

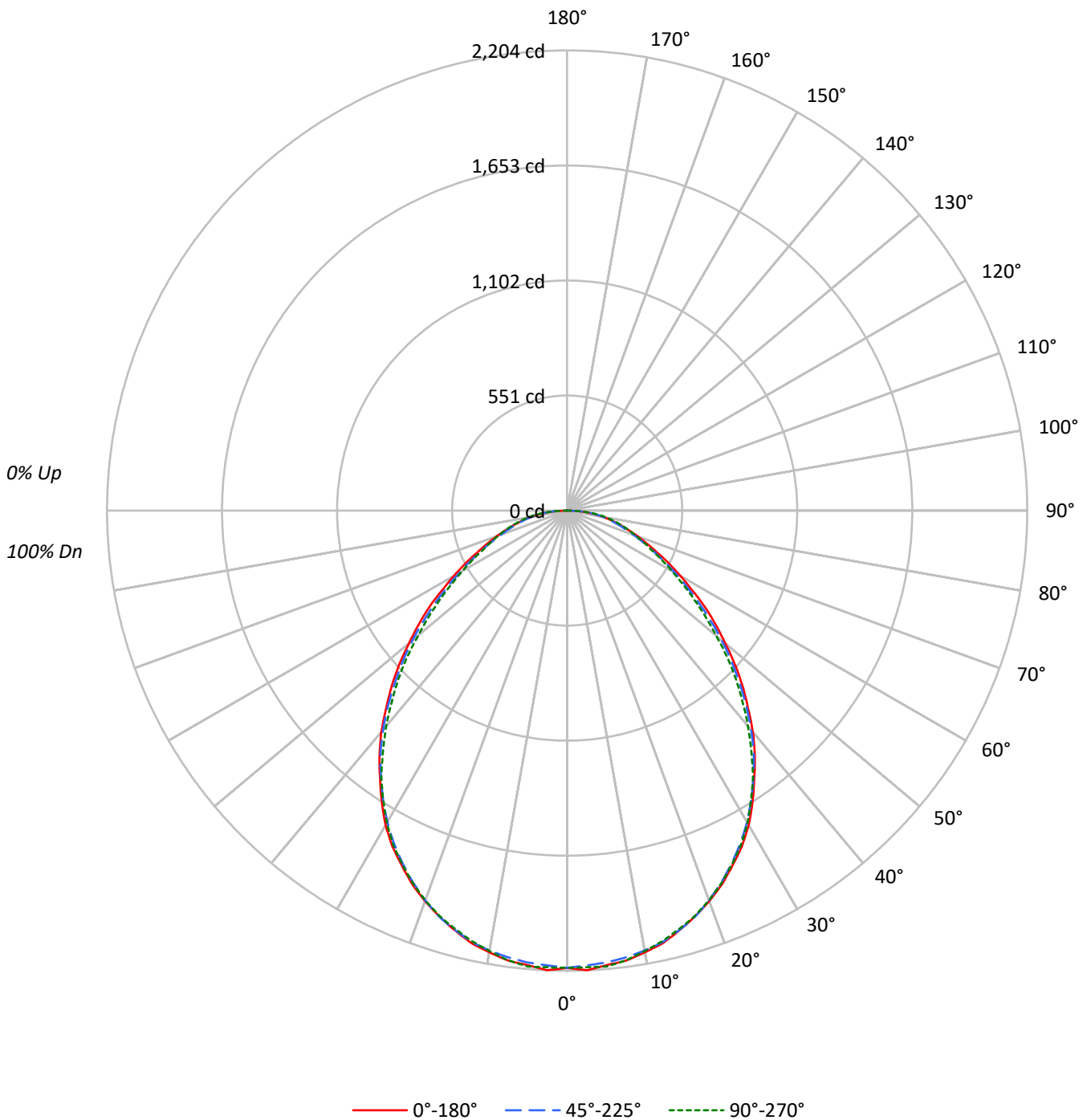
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2947	2947	2947
5°	2951	2934	2959
10°	2935	2923	2925
15°	2899	2896	2889
20°	2850	2844	2844
25°	2784	2768	2774
30°	2703	2676	2684
35°	2567	2555	2549
40°	2431	2409	2367
45°	2260	2220	2177
50°	2070	2024	1948
55°	1891	1805	1744
60°	1685	1604	1562
65°	1516	1437	1417
70°	1407	1321	1375
75°	1346	1287	1395
80°	1346	1346	1491
85°	1397	1413	1573



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.8	4.1
10°-20°	585.3	11.6
20°-30°	859.0	17.0
30°-40°	971.2	19.3
40°-50°	897.6	17.8
50°-60°	691.6	13.7
60°-70°	457.9	9.1
70°-80°	272.6	5.4
80°-90°	99.9	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°	1651.2	32.7
0°-40°	2622.4	52.0
0°-60°	4211.6	83.5
0°-90°	5042.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5042.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2190	2190	2190	2190	2190	
5°	2185	2185	2172	2174	2191	208
15°	2081	2077	2079	2078	2074	587
25°	1875	1870	1865	1862	1869	863
35°	1563	1561	1556	1548	1552	978
45°	1188	1179	1167	1146	1144	915
55°	806	789	770	749	744	719
65°	476	469	451	447	445	478
75°	259	253	248	259	268	276
85°	90	85	92	101	102	96
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2190.1	2190.1	2190.1	2190.1	2190.1
2.5°	2203.6	2192.2	2179.7	2179.7	2189.1
5°	2184.9	2184.9	2172.4	2173.5	2191.2
7.5°	2173.5	2167.2	2158.9	2158.9	2172.4
10°	2148.5	2143.3	2139.2	2137.1	2141.2
12.5°	2121.5	2113.2	2116.3	2113.2	2112.1
15°	2080.9	2076.8	2078.9	2077.8	2073.7
17.5°	2037.3	2035.2	2039.3	2032.1	2035.2
20°	1990.5	1984.2	1986.3	1982.1	1986.3
22.5°	1937.4	1933.3	1928.1	1922.9	1931.2
25°	1875.0	1869.8	1864.6	1862.5	1868.8
27.5°	1812.6	1804.3	1797.0	1794.9	1804.3
30°	1739.8	1730.5	1722.1	1720.1	1727.3
32.5°	1653.5	1651.4	1641.0	1636.9	1640.0
35°	1563.0	1561.0	1555.8	1548.5	1551.6
37.5°	1476.7	1475.7	1468.4	1455.9	1447.6
40°	1384.2	1376.9	1371.7	1354.0	1347.8
42.5°	1282.3	1280.2	1270.8	1251.1	1243.8
45°	1187.6	1179.3	1166.8	1146.0	1143.9
47.5°	1089.9	1078.4	1067.0	1041.0	1039.9
50°	989.0	980.7	967.1	941.2	930.8
52.5°	895.4	884.0	865.2	840.3	835.1
55°	806.0	789.3	769.6	748.8	743.6
57.5°	710.3	703.0	679.1	662.4	656.2
60°	626.0	619.8	595.9	580.3	580.3
62.5°	550.1	540.8	520.0	509.6	509.6
65°	476.3	469.0	451.3	447.2	445.1
67.5°	412.9	403.5	391.0	390.0	395.2
70°	357.7	346.3	335.9	346.3	349.4
72.5°	305.7	298.5	289.1	302.6	308.9
75°	258.9	252.7	247.5	258.9	268.3
77.5°	216.3	210.1	210.1	222.5	230.9
80°	173.7	169.5	173.7	184.1	192.4
82.5°	133.1	130.0	135.2	145.6	150.8
85°	90.5	85.3	91.5	100.9	101.9
87.5°	42.6	41.6	45.8	52.0	51.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)