

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: P292997

Luminaire Tested: **24GR-LD5-48-F1-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292997
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5055.0 lumens
Efficiency: N/A
Efficacy: 149.7 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

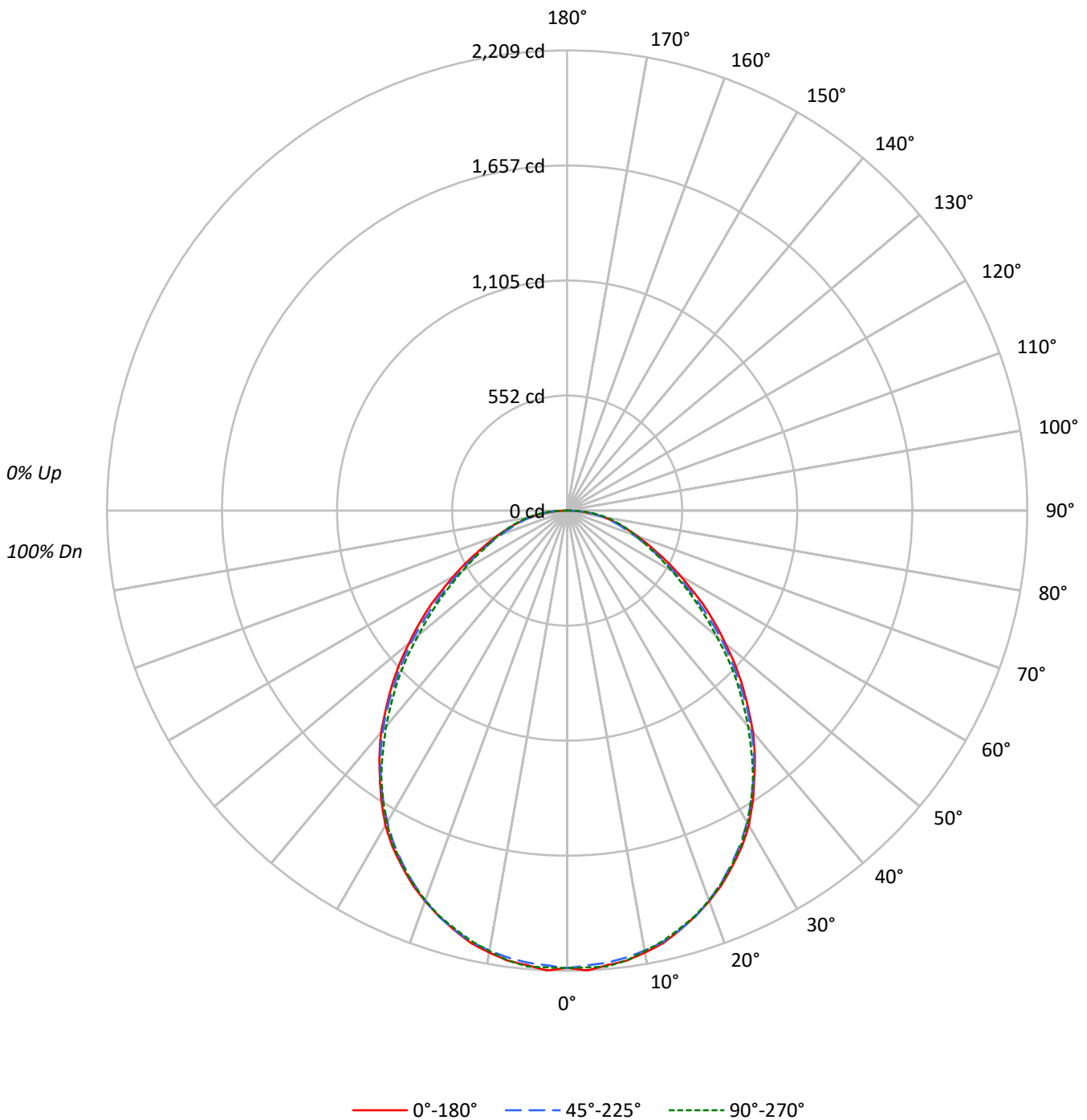
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2954	2954	2954
5°	2959	2942	2967
10°	2943	2930	2933
15°	2906	2903	2896
20°	2857	2851	2851
25°	2791	2775	2782
30°	2710	2683	2691
35°	2574	2562	2555
40°	2437	2415	2373
45°	2266	2226	2182
50°	2075	2030	1953
55°	1895	1810	1749
60°	1689	1608	1566
65°	1520	1441	1421
70°	1411	1325	1378
75°	1350	1290	1398
80°	1349	1349	1495
85°	1400	1417	1578



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	207.4	4.1
10°-20°	586.8	11.6
20°-30°	861.3	17.0
30°-40°	973.7	19.3
40°-50°	899.9	17.8
50°-60°	693.3	13.7
60°-70°	459.1	9.1
70°-80°	273.3	5.4
80°-90°	100.1	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°	1655.5	32.7
0°-40°	2629.2	52.0
0°-60°	4222.4	83.5
0°-90°	5055.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5055.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2196	2196	2196	2196	2196	
5°	2191	2191	2178	2179	2197	208
15°	2086	2082	2084	2083	2079	588
25°	1880	1875	1869	1867	1874	866
35°	1567	1565	1560	1552	1556	981
45°	1191	1182	1170	1149	1147	917
55°	808	791	772	751	746	721
65°	478	470	452	448	446	479
75°	260	253	248	260	269	277
85°	91	86	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°	2195.8	2195.8	2195.8	2195.8	2195.8
2.5°	2209.3	2197.9	2185.3	2185.3	2194.7
5°	2190.6	2190.6	2178.0	2179.1	2196.8
7.5°	2179.1	2172.8	2164.5	2164.5	2178.0
10°	2154.1	2148.9	2144.7	2142.6	2146.8
12.5°	2127.0	2118.6	2121.7	2118.6	2117.6
15°	2086.3	2082.1	2084.2	2083.2	2079.0
17.5°	2042.5	2040.4	2044.6	2037.3	2040.4
20°	1995.6	1989.3	1991.4	1987.2	1991.4
22.5°	1942.4	1938.2	1933.0	1927.8	1936.2
25°	1879.9	1874.6	1869.4	1867.3	1873.6
27.5°	1817.3	1809.0	1801.7	1799.6	1809.0
30°	1744.3	1734.9	1726.6	1724.5	1731.8
32.5°	1657.8	1655.7	1645.3	1641.1	1644.2
35°	1567.1	1565.0	1559.8	1552.5	1555.6
37.5°	1480.5	1479.5	1472.2	1459.7	1451.3
40°	1387.7	1380.4	1375.2	1357.5	1351.2
42.5°	1285.6	1283.5	1274.1	1254.3	1247.0
45°	1190.7	1182.3	1169.8	1149.0	1146.9
47.5°	1092.7	1081.2	1069.7	1043.7	1042.6
50°	991.5	983.2	969.6	943.6	933.2
52.5°	897.7	886.2	867.5	842.4	837.2
55°	808.0	791.4	771.5	750.7	745.5
57.5°	712.1	704.8	680.8	664.2	657.9
60°	627.7	621.4	597.4	581.8	581.8
62.5°	551.5	542.2	521.3	510.9	510.9
65°	477.5	470.2	452.5	448.3	446.2
67.5°	413.9	404.5	392.0	391.0	396.2
70°	358.7	347.2	336.8	347.2	350.3
72.5°	306.5	299.2	289.9	303.4	309.7
75°	259.6	253.4	248.1	259.6	269.0
77.5°	216.9	210.6	210.6	223.1	231.5
80°	174.1	169.9	174.1	184.5	192.9
82.5°	133.5	130.3	135.5	146.0	151.2
85°	90.7	85.5	91.8	101.1	102.2
87.5°	42.7	41.7	45.9	52.1	51.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)