

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: P292994

Luminaire Tested: **24GR-LD5-48-F1-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292994
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4926.0 lumens
Efficiency: N/A
Efficacy: 147.1 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

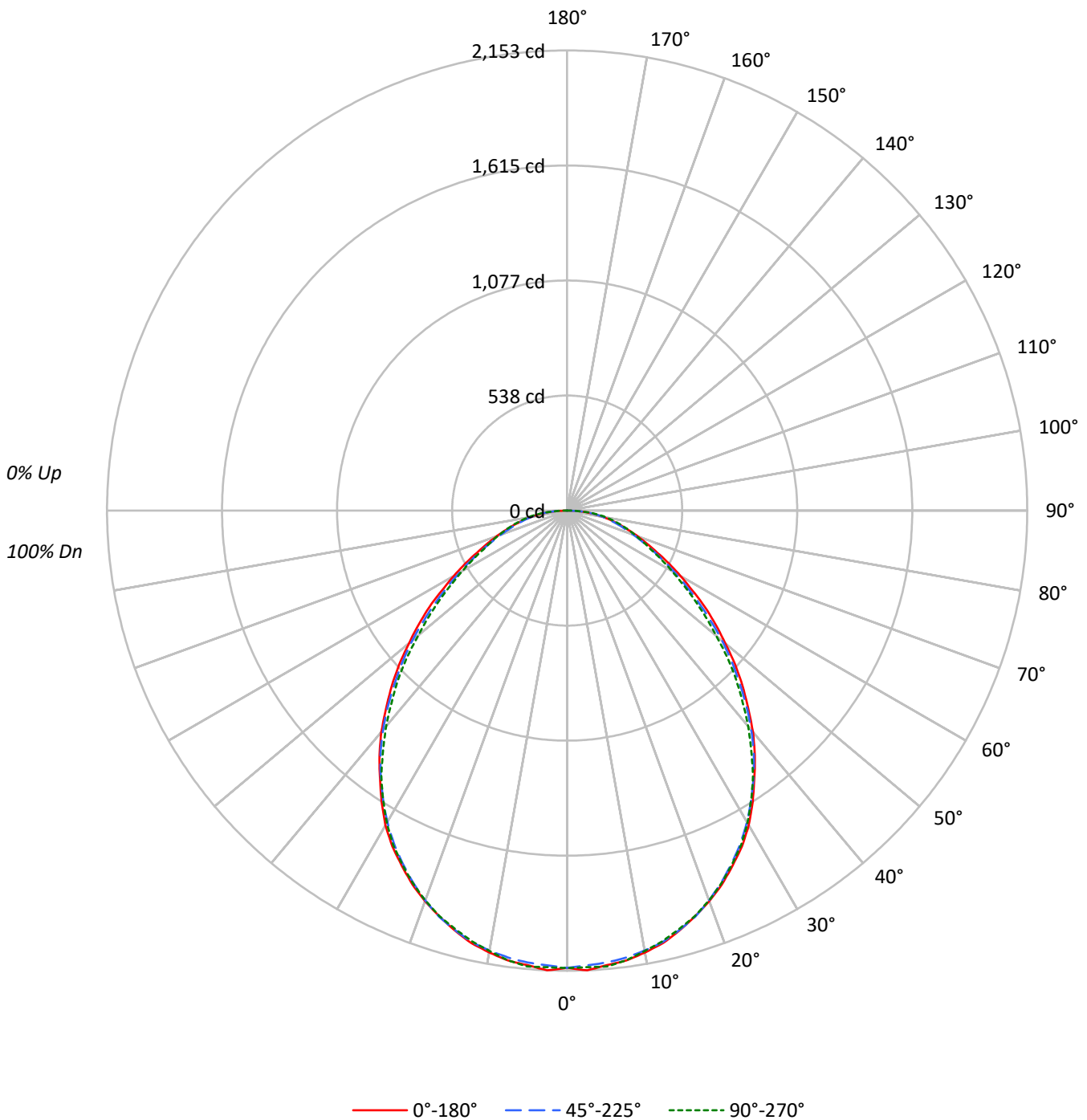
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2879	2879	2879
5°	2883	2867	2891
10°	2868	2855	2858
15°	2832	2829	2822
20°	2784	2779	2779
25°	2720	2704	2711
30°	2641	2614	2622
35°	2508	2497	2490
40°	2375	2354	2313
45°	2208	2169	2127
50°	2022	1978	1903
55°	1847	1764	1704
60°	1646	1567	1526
65°	1481	1404	1385
70°	1375	1291	1343
75°	1315	1257	1363
80°	1315	1315	1457
85°	1365	1380	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.1	4.1
10°-20°	571.9	11.6
20°-30°	839.3	17.0
30°-40°	948.9	19.3
40°-50°	877.0	17.8
50°-60°	675.6	13.7
60°-70°	447.4	9.1
70°-80°	266.3	5.4
80°-90°	97.6	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°	1613.2	32.7
0°-40°	2562.1	52.0
0°-60°	4114.7	83.5
0°-90°	4926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2140	2140	2140	2140	2140	
5°	2135	2135	2122	2124	2141	203
15°	2033	2029	2031	2030	2026	573
25°	1832	1827	1822	1820	1826	843
35°	1527	1525	1520	1513	1516	956
45°	1160	1152	1140	1120	1118	894
55°	787	771	752	732	726	702
65°	465	458	441	437	435	467
75°	253	247	242	253	262	270
85°	88	83	89	99	100	94
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2139.7	2139.7	2139.7	2139.7	2139.7
2.5°	2152.9	2141.8	2129.6	2129.6	2138.7
5°	2134.7	2134.7	2122.5	2123.5	2140.8
7.5°	2123.5	2117.4	2109.3	2109.3	2122.5
10°	2099.1	2094.0	2090.0	2087.9	2092.0
12.5°	2072.7	2064.6	2067.6	2064.6	2063.5
15°	2033.1	2029.0	2031.0	2030.0	2025.9
17.5°	1990.4	1988.4	1992.4	1985.3	1988.4
20°	1944.7	1938.6	1940.6	1936.5	1940.6
22.5°	1892.8	1888.8	1883.7	1878.6	1886.7
25°	1831.9	1826.8	1821.7	1819.7	1825.8
27.5°	1770.9	1762.8	1755.7	1753.7	1762.8
30°	1699.8	1690.7	1682.5	1680.5	1687.6
32.5°	1615.5	1613.4	1603.3	1599.2	1602.3
35°	1527.1	1525.0	1520.0	1512.9	1515.9
37.5°	1442.7	1441.7	1434.6	1422.4	1414.3
40°	1352.3	1345.2	1340.1	1322.9	1316.8
42.5°	1252.8	1250.7	1241.6	1222.3	1215.2
45°	1160.3	1152.2	1140.0	1119.7	1117.6
47.5°	1064.8	1053.6	1042.4	1017.0	1016.0
50°	966.2	958.1	944.9	919.5	909.3
52.5°	874.8	863.6	845.3	820.9	815.9
55°	787.4	771.2	751.9	731.5	726.5
57.5°	693.9	686.8	663.5	647.2	641.1
60°	611.6	605.5	582.2	566.9	566.9
62.5°	537.5	528.3	508.0	497.8	497.8
65°	465.3	458.2	441.0	436.9	434.9
67.5°	403.4	394.2	382.0	381.0	386.1
70°	349.5	338.3	328.2	338.3	341.4
72.5°	298.7	291.6	282.5	295.7	301.8
75°	253.0	246.9	241.8	253.0	262.1
77.5°	211.3	205.2	205.2	217.4	225.6
80°	169.7	165.6	169.7	179.8	188.0
82.5°	130.1	127.0	132.1	142.2	147.3
85°	88.4	83.3	89.4	98.6	99.6
87.5°	41.7	40.6	44.7	50.8	49.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)