

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: P292992

Luminaire Tested: **24GR-LD5-48-F1-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292992
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4736.0 lumens
Efficiency: N/A
Efficacy: 143.4 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

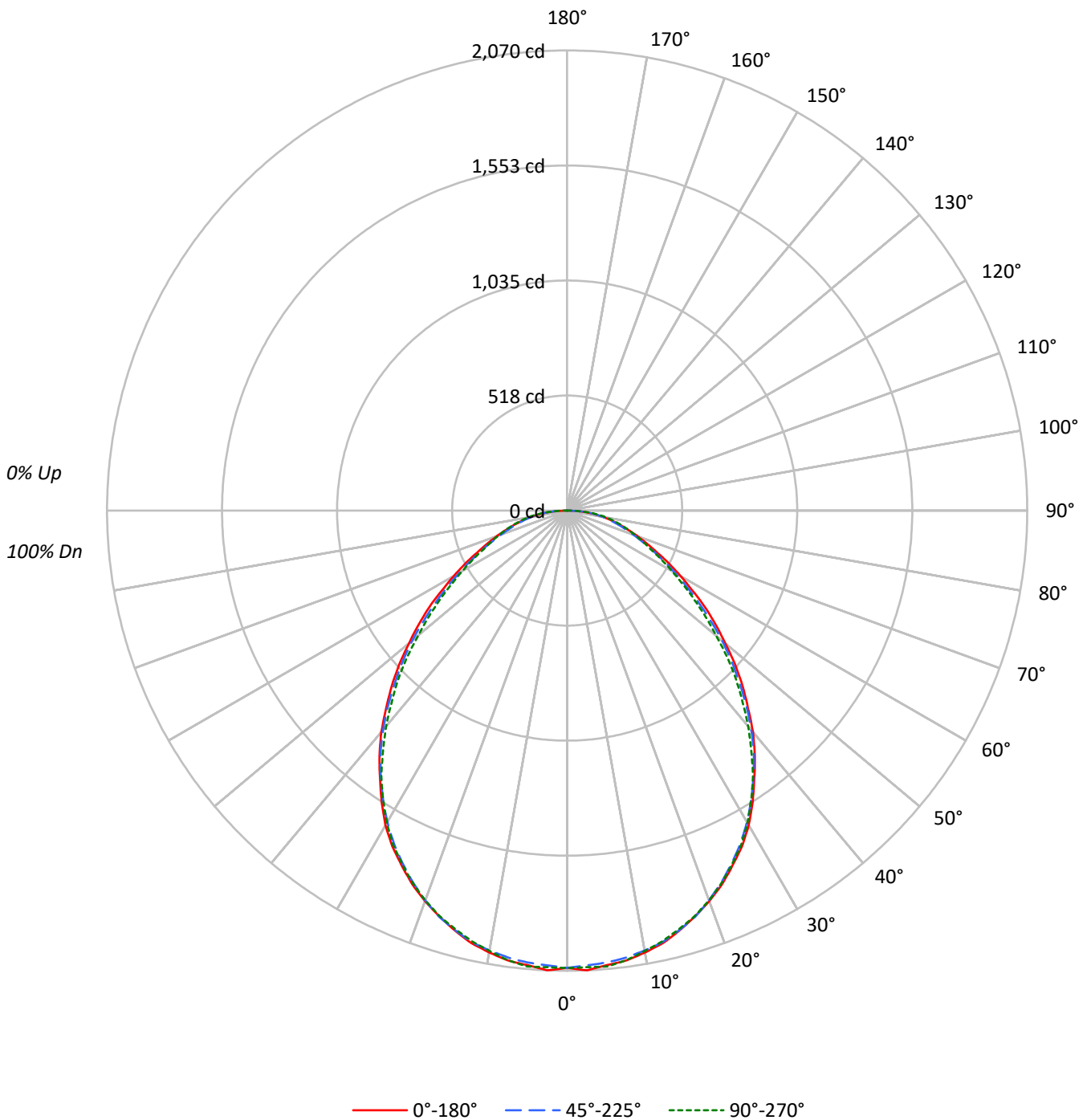
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2768	2768	2768
5°	2772	2756	2780
10°	2757	2745	2748
15°	2723	2720	2713
20°	2677	2671	2671
25°	2615	2600	2606
30°	2539	2513	2521
35°	2412	2400	2394
40°	2284	2263	2224
45°	2123	2085	2045
50°	1945	1902	1830
55°	1776	1696	1638
60°	1583	1506	1467
65°	1424	1350	1331
70°	1322	1241	1291
75°	1264	1209	1310
80°	1264	1264	1400
85°	1312	1328	1477



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	4.1
10°-20°	549.8	11.6
20°-30°	806.9	17.0
30°-40°	912.3	19.3
40°-50°	843.1	17.8
50°-60°	649.6	13.7
60°-70°	430.1	9.1
70°-80°	256.1	5.4
80°-90°	93.8	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°	1551.0	32.7
0°-40°	2463.3	52.0
0°-60°	3956.0	83.5
0°-90°	4736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2057	2057	2057	2057	2057	
5°	2052	2052	2041	2042	2058	195
15°	1955	1951	1953	1952	1948	551
25°	1761	1756	1752	1750	1755	811
35°	1468	1466	1461	1454	1457	919
45°	1116	1108	1096	1076	1074	859
55°	757	741	723	703	698	675
65°	447	441	424	420	418	449
75°	243	237	232	243	252	259
85°	85	80	86	95	96	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.2	2057.2	2057.2	2057.2	2057.2
2.5°	2069.9	2059.2	2047.4	2047.4	2056.2
5°	2052.3	2052.3	2040.6	2041.6	2058.2
7.5°	2041.6	2035.7	2027.9	2027.9	2040.6
10°	2018.1	2013.2	2009.3	2007.4	2011.3
12.5°	1992.7	1984.9	1987.9	1984.9	1983.9
15°	1954.6	1950.7	1952.7	1951.7	1947.8
17.5°	1913.6	1911.7	1915.6	1908.7	1911.7
20°	1869.7	1863.8	1865.7	1861.8	1865.7
22.5°	1819.8	1815.9	1811.0	1806.2	1814.0
25°	1761.2	1756.3	1751.5	1749.5	1755.4
27.5°	1702.6	1694.8	1688.0	1686.0	1694.8
30°	1634.2	1625.4	1617.6	1615.7	1622.5
32.5°	1553.2	1551.2	1541.4	1537.5	1540.5
35°	1468.2	1466.2	1461.3	1454.5	1457.4
37.5°	1387.1	1386.1	1379.3	1367.6	1359.7
40°	1300.2	1293.3	1288.4	1271.8	1266.0
42.5°	1204.4	1202.5	1193.7	1175.1	1168.3
45°	1115.5	1107.7	1096.0	1076.5	1074.5
47.5°	1023.7	1013.0	1002.2	977.8	976.8
50°	929.0	921.2	908.5	884.0	874.3
52.5°	841.1	830.3	812.7	789.3	784.4
55°	757.0	741.4	722.9	703.3	698.4
57.5°	667.2	660.3	637.9	622.2	616.4
60°	588.1	582.2	559.7	545.1	545.1
62.5°	516.7	508.0	488.4	478.6	478.6
65°	447.4	440.6	423.9	420.0	418.1
67.5°	387.8	379.0	367.3	366.3	371.2
70°	336.0	325.3	315.5	325.3	328.2
72.5°	287.2	280.4	271.6	284.3	290.1
75°	243.2	237.4	232.5	243.2	252.0
77.5°	203.2	197.3	197.3	209.0	216.9
80°	163.1	159.2	163.1	172.9	180.7
82.5°	125.0	122.1	127.0	136.8	141.6
85°	85.0	80.1	86.0	94.8	95.7
87.5°	40.1	39.1	43.0	48.8	47.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)