

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: P294381

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-FGW080-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3908.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

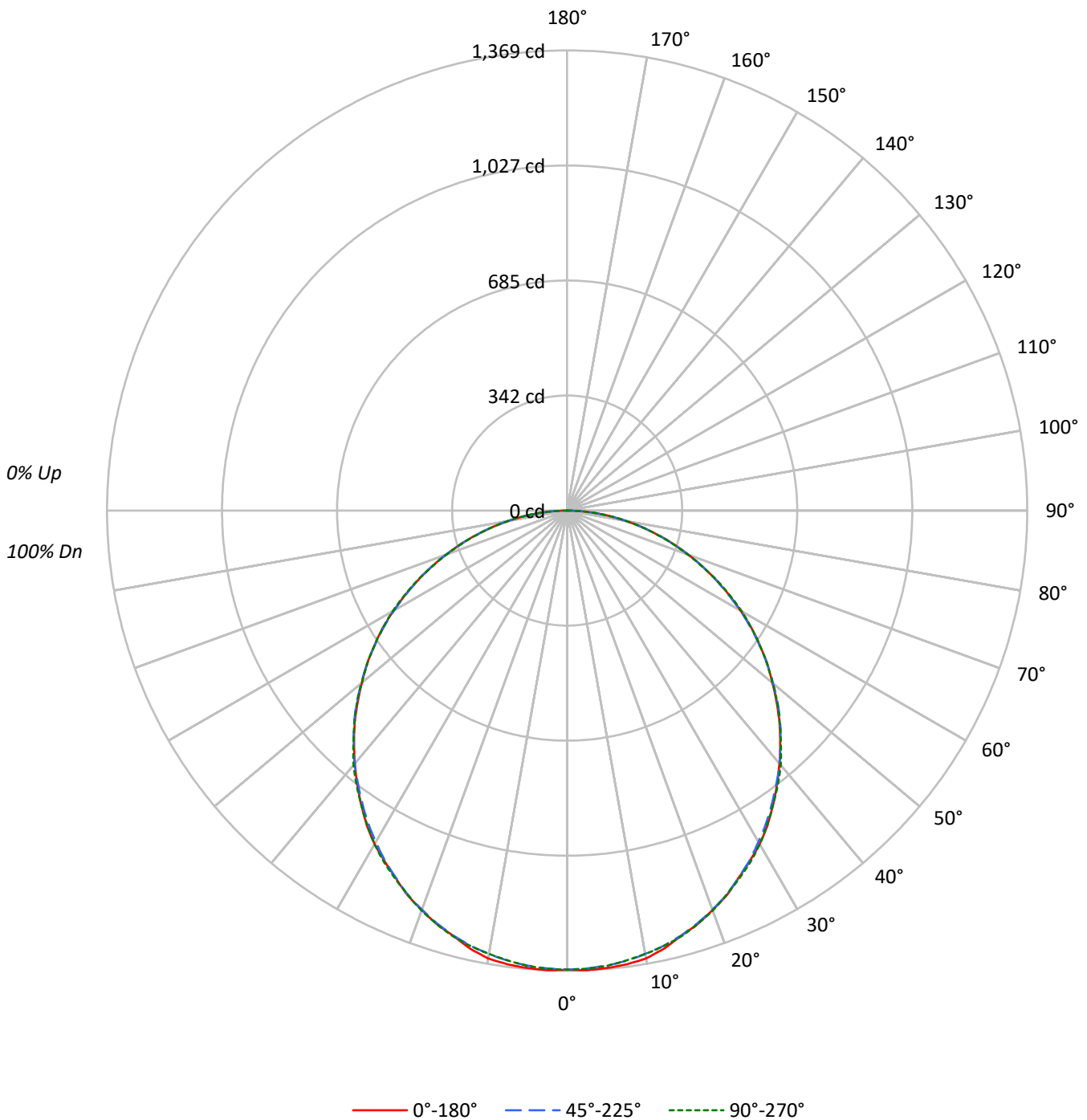
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1838	1838	1838
5°	1845	1835	1836
10°	1849	1830	1830
15°	1824	1823	1827
20°	1811	1809	1813
25°	1791	1790	1795
30°	1780	1768	1781
35°	1755	1746	1755
40°	1726	1727	1737
45°	1701	1706	1703
50°	1669	1675	1671
55°	1643	1639	1643
60°	1605	1600	1615
65°	1555	1561	1567
70°	1505	1512	1501
75°	1452	1452	1452
80°	1371	1371	1385
85°	1266	1280	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.2	3.3
10°-20°	369.2	9.4
20°-30°	556.4	14.2
30°-40°	666.4	17.1
40°-50°	689.8	17.7
50°-60°	625.5	16.0
60°-70°	484.9	12.4
70°-80°	294.9	7.5
80°-90°	91.7	2.3
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°	1054.7	27.0
0°-40°	1721.2	44.0
0°-60°	3036.4	77.7
0°-90°	3908.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1366	1366	1366	1366	1366	
5°	1366	1358	1358	1357	1359	130
15°	1310	1311	1309	1304	1312	370
25°	1206	1206	1206	1209	1209	557
35°	1068	1061	1063	1067	1068	668
45°	894	896	897	893	895	689
55°	700	697	699	701	700	626
65°	488	491	490	488	492	484
75°	279	278	279	278	279	295
85°	82	81	83	82	80	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1365.9	1365.9	1365.9	1365.9	1365.9
2.5°	1368.7	1363.1	1363.1	1361.3	1364.0
5°	1365.9	1357.6	1358.5	1356.7	1359.4
7.5°	1361.3	1350.2	1351.1	1349.3	1350.2
10°	1353.0	1340.1	1339.2	1338.2	1339.2
12.5°	1334.6	1327.2	1326.3	1324.4	1327.2
15°	1309.7	1310.6	1308.7	1304.1	1311.5
17.5°	1290.3	1289.4	1287.6	1282.9	1290.3
20°	1264.5	1265.4	1263.6	1261.7	1266.4
22.5°	1239.6	1236.9	1237.8	1236.9	1237.8
25°	1206.4	1206.4	1205.5	1209.2	1209.2
27.5°	1176.0	1172.3	1174.2	1177.9	1179.7
30°	1145.6	1136.4	1138.2	1141.9	1146.5
32.5°	1109.7	1100.5	1102.3	1106.0	1107.8
35°	1068.2	1060.8	1062.7	1067.3	1068.2
37.5°	1025.8	1021.2	1023.0	1026.7	1029.5
40°	982.5	980.6	983.4	982.5	988.9
42.5°	938.2	937.3	940.1	940.1	941.0
45°	894.0	895.8	896.8	893.1	894.9
47.5°	845.2	846.1	849.8	847.9	848.8
50°	797.2	796.3	800.0	800.9	798.2
52.5°	751.1	746.5	750.2	752.1	750.2
55°	700.5	696.8	698.6	701.4	700.5
57.5°	650.7	647.0	647.9	652.5	650.7
60°	596.3	595.4	594.5	598.2	600.0
62.5°	542.9	541.9	540.1	543.8	545.6
65°	488.5	491.2	490.3	488.5	492.2
67.5°	436.9	439.6	436.9	435.0	435.0
70°	382.5	385.3	384.3	382.5	381.6
72.5°	331.8	331.8	330.0	329.0	330.0
75°	279.3	278.3	279.3	278.3	279.3
77.5°	227.6	228.6	228.6	228.6	227.6
80°	177.0	177.0	177.0	177.9	178.8
82.5°	130.0	127.2	130.0	128.1	129.0
85°	82.0	81.1	82.9	82.0	80.2
87.5°	36.9	37.8	37.8	38.7	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)