

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: P294254

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294254
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-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4295.0 lumens
Efficiency: N/A
Efficacy: 128.3 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

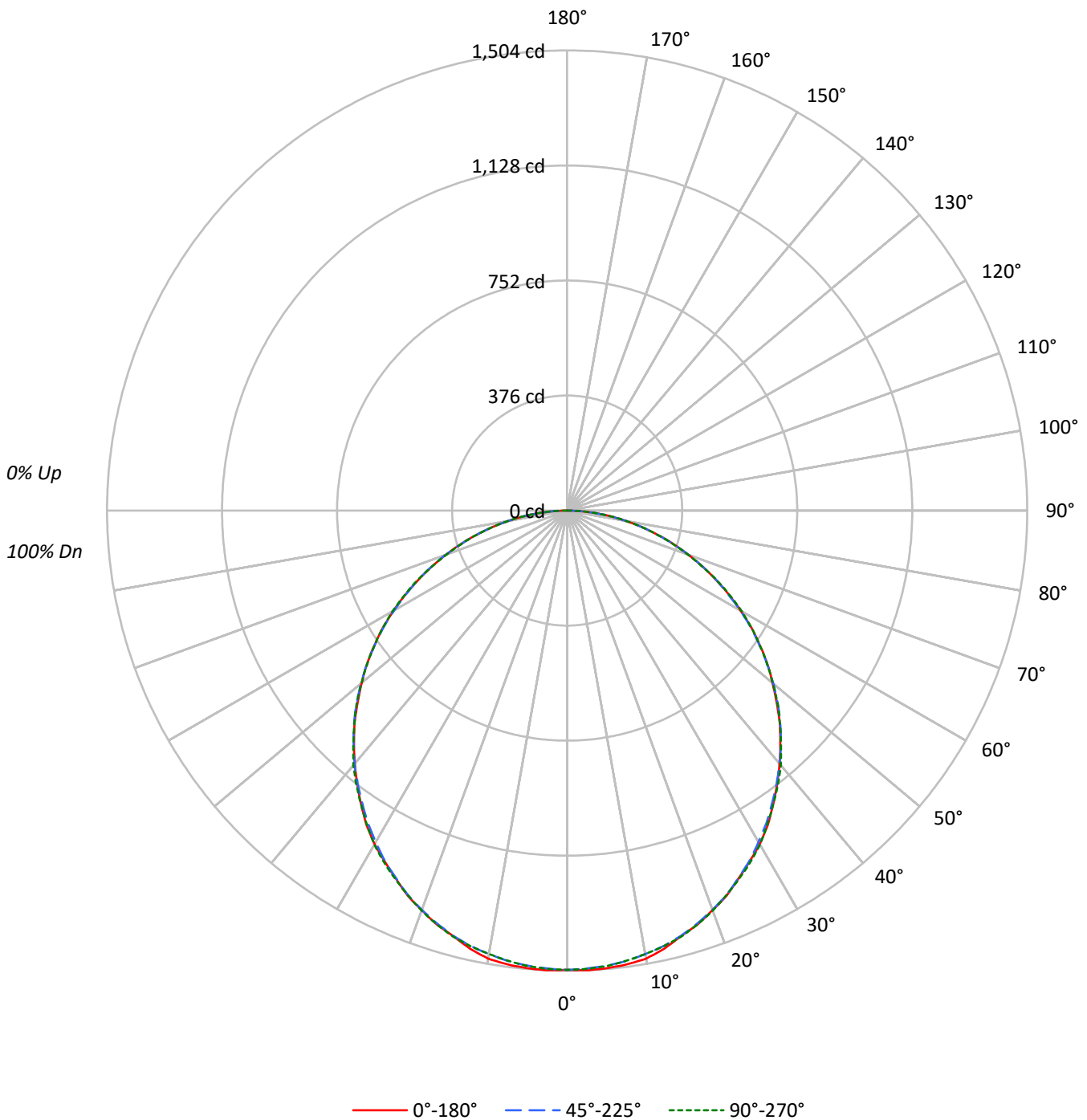
Input Watts (W): 33.48
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2020	2020	2020
5°	2028	2016	2018
10°	2032	2011	2011
15°	2005	2004	2008
20°	1990	1988	1993
25°	1968	1967	1973
30°	1956	1944	1958
35°	1928	1918	1928
40°	1897	1898	1909
45°	1870	1875	1871
50°	1834	1840	1836
55°	1806	1801	1806
60°	1764	1758	1774
65°	1709	1716	1722
70°	1654	1662	1650
75°	1595	1595	1595
80°	1507	1507	1523
85°	1392	1408	1360



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	3.3
10°-20°	405.8	9.4
20°-30°	611.5	14.2
30°-40°	732.4	17.1
40°-50°	758.1	17.7
50°-60°	687.4	16.0
60°-70°	532.9	12.4
70°-80°	324.1	7.5
80°-90°	100.8	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°	1159.2	27.0
0°-40°	1891.6	44.0
0°-60°	3337.1	77.7
0°-90°	4295.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4295.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1501	1492	1493	1491	1494	143
15°	1439	1440	1438	1433	1441	407
25°	1326	1326	1325	1329	1329	612
35°	1174	1166	1168	1173	1174	734
45°	982	985	986	982	984	757
55°	770	766	768	771	770	688
65°	537	540	539	537	541	532
75°	307	306	307	306	307	324
85°	90	89	91	90	88	101
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.2	1501.2	1501.2	1501.2	1501.2
2.5°	1504.2	1498.1	1498.1	1496.1	1499.1
5°	1501.2	1492.0	1493.0	1491.0	1494.1
7.5°	1496.1	1483.9	1484.9	1482.9	1483.9
10°	1487.0	1472.8	1471.8	1470.8	1471.8
12.5°	1466.7	1458.6	1457.6	1455.6	1458.6
15°	1439.4	1440.4	1438.4	1433.3	1441.4
17.5°	1418.1	1417.1	1415.1	1410.0	1418.1
20°	1389.7	1390.7	1388.7	1386.7	1391.8
22.5°	1362.4	1359.3	1360.4	1359.3	1360.4
25°	1325.9	1325.9	1324.9	1329.0	1329.0
27.5°	1292.5	1288.4	1290.5	1294.5	1296.5
30°	1259.1	1248.9	1251.0	1255.0	1260.1
32.5°	1219.6	1209.4	1211.5	1215.5	1217.5
35°	1174.0	1165.9	1167.9	1173.0	1174.0
37.5°	1127.4	1122.3	1124.3	1128.4	1131.4
40°	1079.8	1077.8	1080.8	1079.8	1086.9
42.5°	1031.2	1030.1	1033.2	1033.2	1034.2
45°	982.5	984.6	985.6	981.5	983.5
47.5°	928.9	929.9	933.9	931.9	932.9
50°	876.2	875.2	879.2	880.2	877.2
52.5°	825.5	820.5	824.5	826.5	824.5
55°	769.8	765.8	767.8	770.8	769.8
57.5°	715.1	711.1	712.1	717.1	715.1
60°	655.4	654.3	653.3	657.4	659.4
62.5°	596.6	595.6	593.6	597.6	599.7
65°	536.8	539.9	538.9	536.8	540.9
67.5°	480.1	483.2	480.1	478.1	478.1
70°	420.4	423.4	422.4	420.4	419.4
72.5°	364.7	364.7	362.6	361.6	362.6
75°	306.9	305.9	306.9	305.9	306.9
77.5°	250.2	251.2	251.2	251.2	250.2
80°	194.5	194.5	194.5	195.5	196.5
82.5°	142.8	139.8	142.8	140.8	141.8
85°	90.2	89.1	91.2	90.2	88.1
87.5°	40.5	41.5	41.5	42.5	42.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)