

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: P294323

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294323
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-LD5-56-FGW080-UNV-L93050-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4589.0 lumens
Efficiency: N/A
Efficacy: 113.0 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

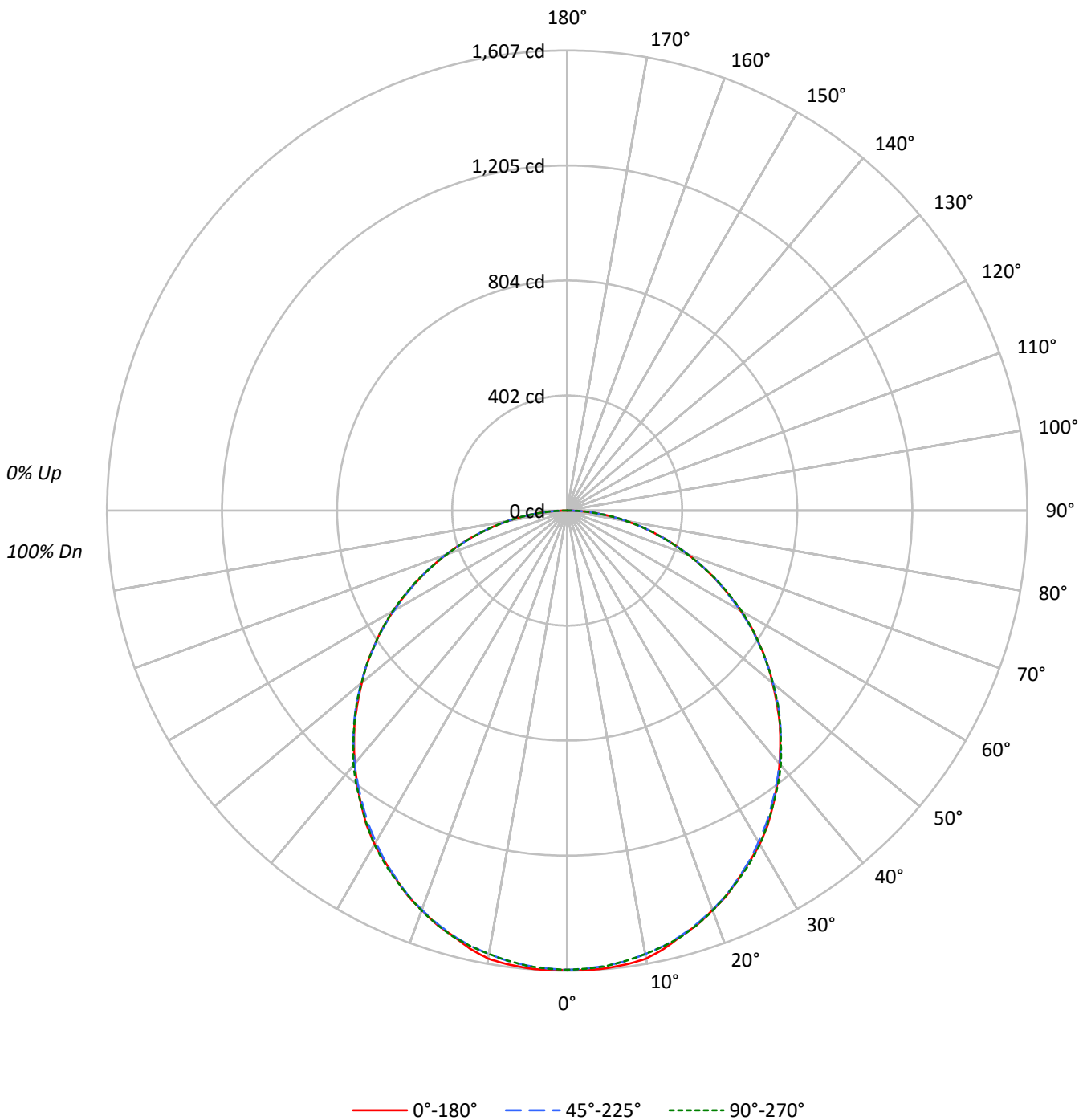
Input Watts (W): 40.603614
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2158	2158	2158
5°	2166	2155	2156
10°	2171	2148	2148
15°	2142	2141	2145
20°	2126	2125	2129
25°	2103	2102	2108
30°	2090	2077	2092
35°	2060	2050	2060
40°	2026	2028	2040
45°	1998	2004	2000
50°	1960	1966	1962
55°	1929	1924	1929
60°	1884	1879	1896
65°	1826	1833	1840
70°	1767	1775	1763
75°	1705	1705	1705
80°	1610	1610	1627
85°	1487	1504	1454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.3
10°-20°	433.5	9.4
20°-30°	653.3	14.2
30°-40°	782.5	17.1
40°-50°	810.0	17.7
50°-60°	734.5	16.0
60°-70°	569.4	12.4
70°-80°	346.3	7.5
80°-90°	107.7	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°	1238.6	27.0
0°-40°	2021.1	44.0
0°-60°	3565.6	77.7
0°-90°	4589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4589.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1594	1595	1593	1596	153
15°	1538	1539	1537	1531	1540	435
25°	1417	1417	1416	1420	1420	654
35°	1254	1246	1248	1253	1254	785
45°	1050	1052	1053	1049	1051	809
55°	822	818	820	824	822	735
65°	574	577	576	574	578	569
75°	328	327	328	327	328	346
85°	96	95	97	96	94	108
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1603.9	1603.9	1603.9	1603.9	1603.9
2.5°	1607.2	1600.7	1600.7	1598.5	1601.7
5°	1603.9	1594.2	1595.3	1593.1	1596.3
7.5°	1598.5	1585.5	1586.6	1584.4	1585.5
10°	1588.8	1573.6	1572.5	1571.4	1572.5
12.5°	1567.1	1558.5	1557.4	1555.2	1558.5
15°	1537.9	1539.0	1536.8	1531.4	1540.1
17.5°	1515.2	1514.1	1511.9	1506.5	1515.2
20°	1484.9	1485.9	1483.8	1481.6	1487.0
22.5°	1455.6	1452.4	1453.5	1452.4	1453.5
25°	1416.7	1416.7	1415.6	1419.9	1419.9
27.5°	1381.0	1376.6	1378.8	1383.1	1385.3
30°	1345.2	1334.4	1336.6	1340.9	1346.3
32.5°	1303.0	1292.2	1294.4	1298.7	1300.9
35°	1254.3	1245.7	1247.8	1253.3	1254.3
37.5°	1204.6	1199.1	1201.3	1205.6	1208.9
40°	1153.7	1151.5	1154.8	1153.7	1161.3
42.5°	1101.7	1100.7	1103.9	1103.9	1105.0
45°	1049.8	1052.0	1053.0	1048.7	1050.9
47.5°	992.4	993.5	997.8	995.7	996.8
50°	936.2	935.1	939.4	940.5	937.2
52.5°	882.0	876.6	881.0	883.1	881.0
55°	822.5	818.2	820.4	823.6	822.5
57.5°	764.1	759.7	760.8	766.2	764.1
60°	700.2	699.1	698.1	702.4	704.6
62.5°	637.5	636.4	634.2	638.5	640.7
65°	573.6	576.8	575.8	573.6	577.9
67.5°	513.0	516.2	513.0	510.8	510.8
70°	449.1	452.4	451.3	449.1	448.1
72.5°	389.6	389.6	387.4	386.4	387.4
75°	327.9	326.8	327.9	326.8	327.9
77.5°	267.3	268.4	268.4	268.4	267.3
80°	207.8	207.8	207.8	208.9	210.0
82.5°	152.6	149.4	152.6	150.4	151.5
85°	96.3	95.2	97.4	96.3	94.2
87.5°	43.3	44.4	44.4	45.5	45.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)