

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: P294322

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294322
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4511.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

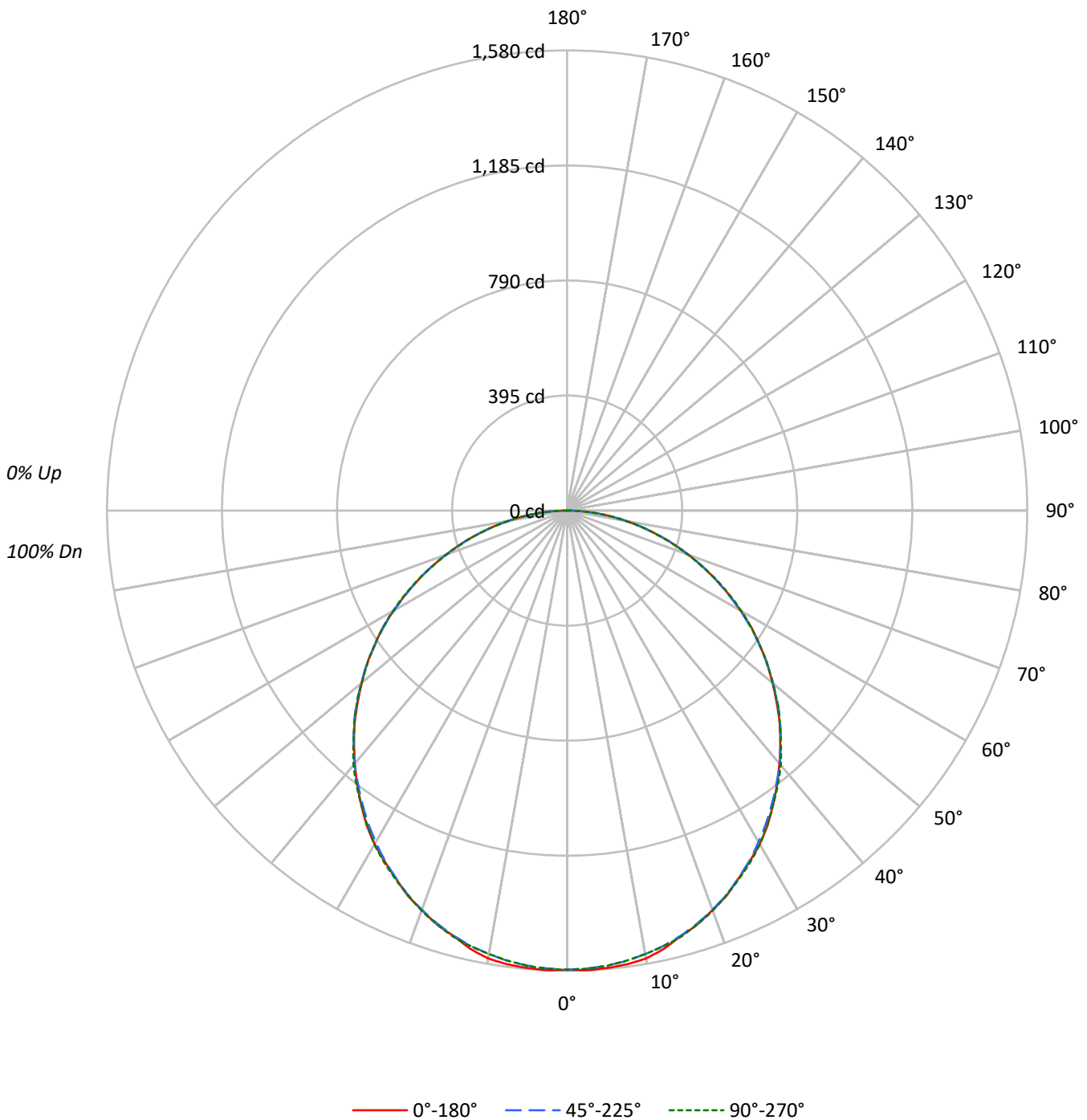
Input Watts (W): 39.980142
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2121	2121	2121
5°	2129	2118	2119
10°	2134	2112	2112
15°	2106	2104	2109
20°	2090	2088	2093
25°	2067	2066	2072
30°	2055	2041	2056
35°	2025	2015	2025
40°	1992	1994	2005
45°	1964	1970	1966
50°	1926	1933	1928
55°	1897	1892	1897
60°	1852	1847	1864
65°	1795	1802	1809
70°	1737	1745	1733
75°	1676	1676	1676
80°	1583	1583	1599
85°	1462	1477	1430



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.1	3.3
10°-20°	426.2	9.4
20°-30°	642.2	14.2
30°-40°	769.2	17.1
40°-50°	796.2	17.7
50°-60°	722.0	16.0
60°-70°	559.7	12.4
70°-80°	340.4	7.5
80°-90°	105.9	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°	1217.5	27.0
0°-40°	1986.7	44.0
0°-60°	3504.9	77.7
0°-90°	4511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1577	1577	1577	1577	1577	
5°	1577	1567	1568	1566	1569	150
15°	1512	1513	1511	1505	1514	427
25°	1393	1393	1392	1396	1396	643
35°	1233	1224	1227	1232	1233	771
45°	1032	1034	1035	1031	1033	795
55°	808	804	806	810	808	723
65°	564	567	566	564	568	559
75°	322	321	322	321	322	341
85°	95	94	96	95	93	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1576.6	1576.6	1576.6	1576.6	1576.6
2.5°	1579.8	1573.5	1573.5	1571.3	1574.5
5°	1576.6	1567.1	1568.1	1566.0	1569.2
7.5°	1571.3	1558.6	1559.6	1557.5	1558.6
10°	1561.8	1546.9	1545.8	1544.7	1545.8
12.5°	1540.5	1532.0	1530.9	1528.8	1532.0
15°	1511.8	1512.8	1510.7	1505.4	1513.9
17.5°	1489.4	1488.3	1486.2	1480.9	1489.4
20°	1459.6	1460.7	1458.6	1456.4	1461.7
22.5°	1430.9	1427.7	1428.8	1427.7	1428.8
25°	1392.6	1392.6	1391.5	1395.8	1395.8
27.5°	1357.5	1353.2	1355.4	1359.6	1361.7
30°	1322.4	1311.7	1313.9	1318.1	1323.4
32.5°	1280.9	1270.3	1272.4	1276.6	1278.8
35°	1233.0	1224.5	1226.6	1232.0	1233.0
37.5°	1184.1	1178.8	1180.9	1185.1	1188.3
40°	1134.1	1132.0	1135.1	1134.1	1141.5
42.5°	1083.0	1081.9	1085.1	1085.1	1086.2
45°	1031.9	1034.1	1035.1	1030.9	1033.0
47.5°	975.6	976.6	980.9	978.8	979.8
50°	920.2	919.2	923.4	924.5	921.3
52.5°	867.0	861.7	866.0	868.1	866.0
55°	808.5	804.3	806.4	809.6	808.5
57.5°	751.1	746.8	747.9	753.2	751.1
60°	688.3	687.3	686.2	690.4	692.6
62.5°	626.6	625.6	623.4	627.7	629.8
65°	563.8	567.0	566.0	563.8	568.1
67.5°	504.3	507.5	504.3	502.1	502.1
70°	441.5	444.7	443.6	441.5	440.4
72.5°	383.0	383.0	380.9	379.8	380.9
75°	322.4	321.3	322.4	321.3	322.4
77.5°	262.8	263.8	263.8	263.8	262.8
80°	204.3	204.3	204.3	205.3	206.4
82.5°	150.0	146.8	150.0	147.9	148.9
85°	94.7	93.6	95.7	94.7	92.6
87.5°	42.6	43.6	43.6	44.7	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)