

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: P294259

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294259
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-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4509.0 lumens
Efficiency: N/A
Efficacy: 115.7 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

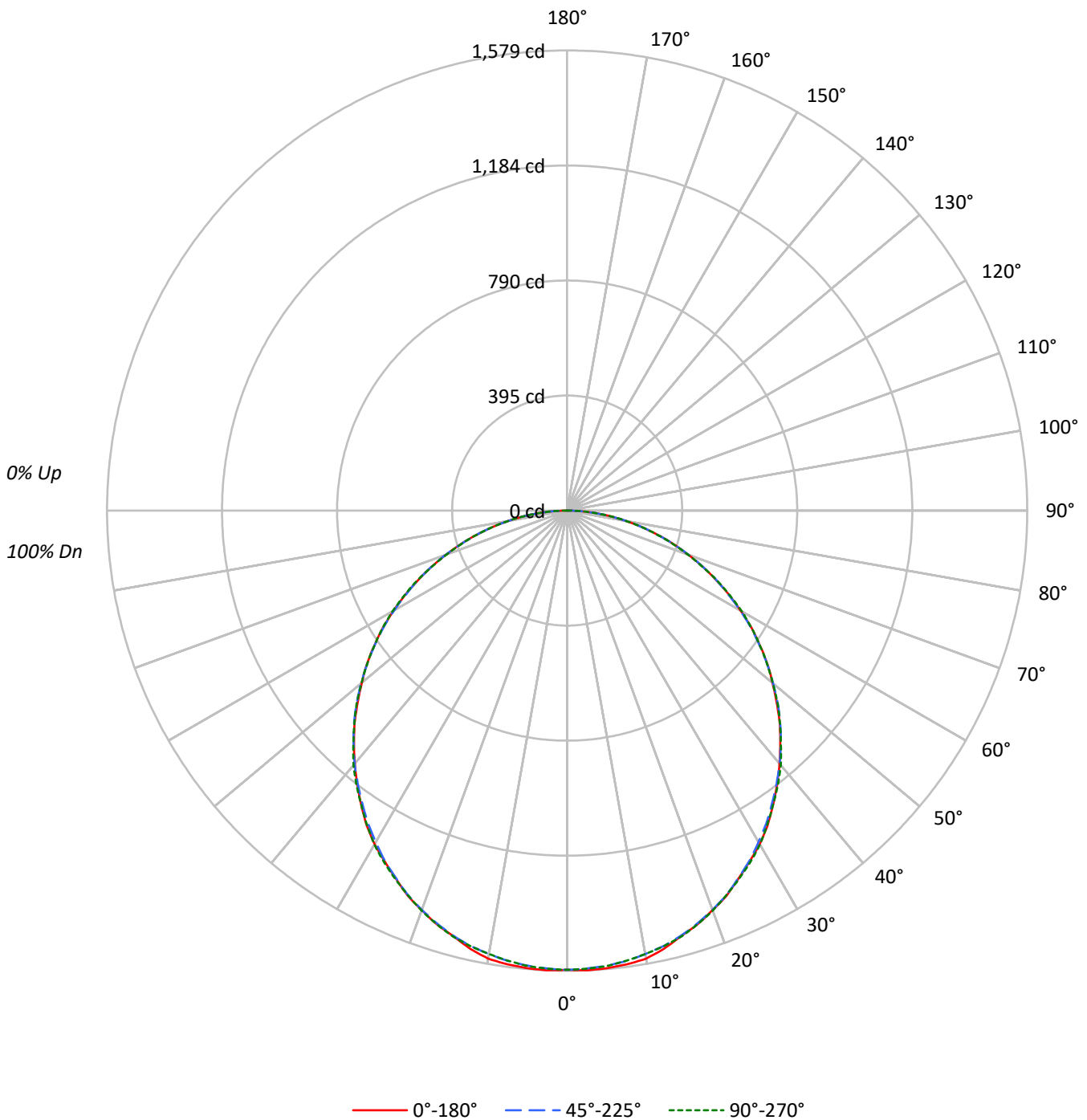
Input Watts (W): 38.967
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2120	2120	2120
5°	2128	2117	2118
10°	2133	2111	2111
15°	2105	2103	2108
20°	2089	2087	2092
25°	2067	2065	2071
30°	2054	2040	2055
35°	2024	2014	2024
40°	1991	1993	2004
45°	1963	1969	1965
50°	1925	1932	1928
55°	1896	1891	1896
60°	1851	1846	1863
65°	1794	1801	1808
70°	1736	1744	1732
75°	1675	1675	1675
80°	1582	1582	1598
85°	1460	1477	1428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	3.3
10°-20°	426.0	9.4
20°-30°	642.0	14.2
30°-40°	768.9	17.1
40°-50°	795.9	17.7
50°-60°	721.7	16.0
60°-70°	559.5	12.4
70°-80°	340.2	7.5
80°-90°	105.8	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°	1217.0	27.0
0°-40°	1985.9	44.0
0°-60°	3503.4	77.7
0°-90°	4509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1576	1576	1576	1576	1576	
5°	1576	1566	1567	1565	1568	150
15°	1511	1512	1510	1505	1513	427
25°	1392	1392	1391	1395	1395	643
35°	1232	1224	1226	1231	1232	771
45°	1032	1034	1035	1030	1033	795
55°	808	804	806	809	808	722
65°	564	567	566	564	568	559
75°	322	321	322	321	322	340
85°	95	94	96	95	92	106
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1575.9	1575.9	1575.9	1575.9	1575.9
2.5°	1579.1	1572.8	1572.8	1570.6	1573.8
5°	1575.9	1566.4	1567.4	1565.3	1568.5
7.5°	1570.6	1557.9	1558.9	1556.8	1557.9
10°	1561.1	1546.2	1545.1	1544.0	1545.1
12.5°	1539.8	1531.3	1530.2	1528.1	1531.3
15°	1511.1	1512.1	1510.0	1504.7	1513.2
17.5°	1488.7	1487.7	1485.6	1480.2	1488.7
20°	1459.0	1460.0	1457.9	1455.8	1461.1
22.5°	1430.3	1427.1	1428.1	1427.1	1428.1
25°	1392.0	1392.0	1390.9	1395.2	1395.2
27.5°	1356.9	1352.6	1354.8	1359.0	1361.1
30°	1321.8	1311.2	1313.3	1317.5	1322.9
32.5°	1280.3	1269.7	1271.8	1276.1	1278.2
35°	1232.5	1224.0	1226.1	1231.4	1232.5
37.5°	1183.6	1178.2	1180.4	1184.6	1187.8
40°	1133.6	1131.4	1134.6	1133.6	1141.0
42.5°	1082.5	1081.5	1084.7	1084.7	1085.7
45°	1031.5	1033.6	1034.7	1030.4	1032.6
47.5°	975.1	976.2	980.4	978.3	979.4
50°	919.8	918.8	923.0	924.1	920.9
52.5°	866.7	861.3	865.6	867.7	865.6
55°	808.2	803.9	806.1	809.2	808.2
57.5°	750.8	746.5	747.6	752.9	750.8
60°	688.0	687.0	685.9	690.1	692.3
62.5°	626.3	625.3	623.1	627.4	629.5
65°	563.6	566.8	565.7	563.6	567.9
67.5°	504.0	507.2	504.0	501.9	501.9
70°	441.3	444.5	443.4	441.3	440.2
72.5°	382.8	382.8	380.7	379.6	380.7
75°	322.2	321.1	322.2	321.1	322.2
77.5°	262.7	263.7	263.7	263.7	262.7
80°	204.2	204.2	204.2	205.2	206.3
82.5°	149.9	146.7	149.9	147.8	148.9
85°	94.6	93.6	95.7	94.6	92.5
87.5°	42.5	43.6	43.6	44.7	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)