

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: P294390

Luminaire Tested: **24GR-LD5-56-FGW080-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294390
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-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: 4542.0 lumens
Efficiency: N/A
Efficacy: 113.8 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

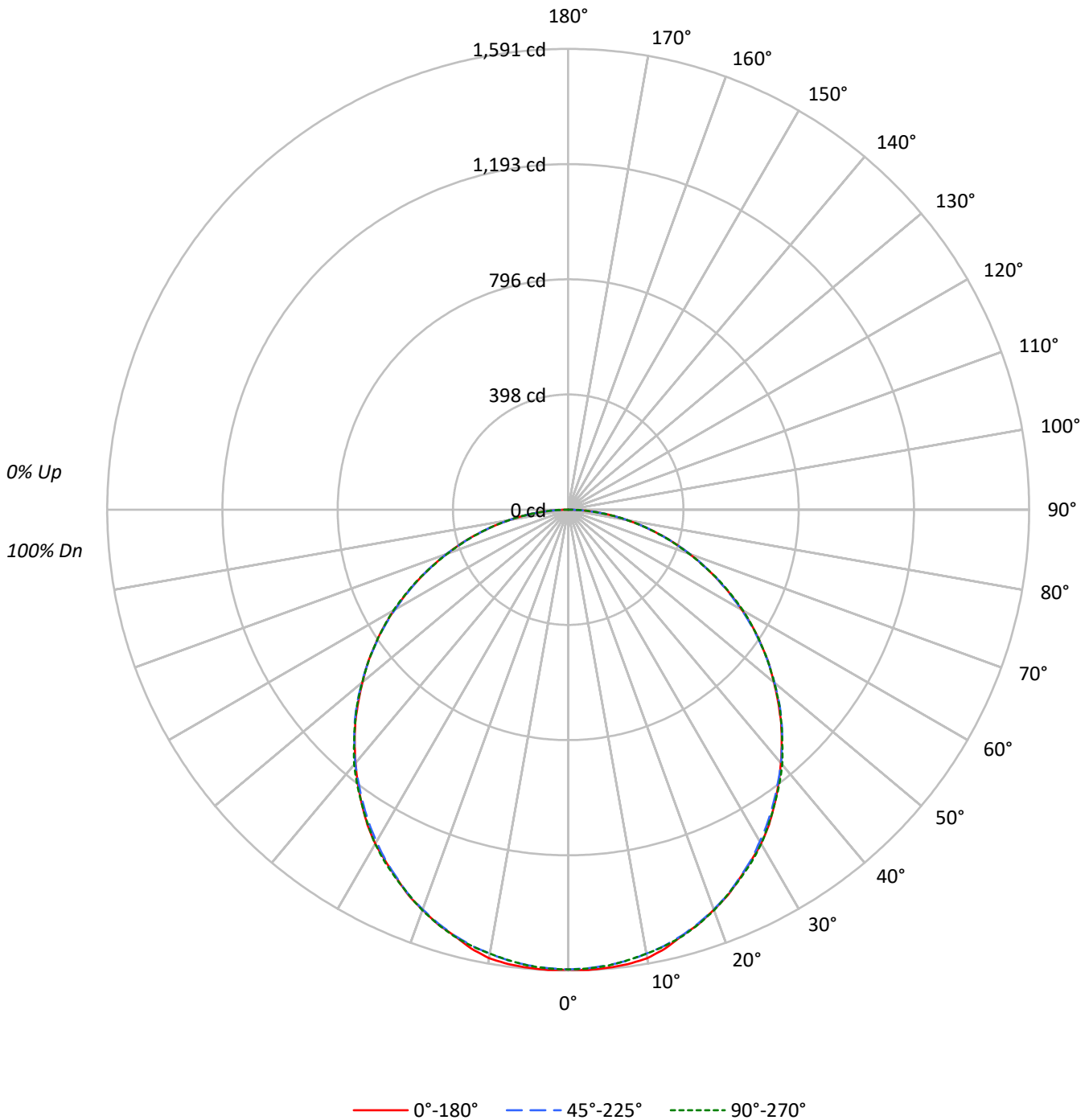
Input Watts (W): 39.897
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2136	2136	2136
5°	2144	2133	2134
10°	2148	2126	2126
15°	2120	2119	2123
20°	2104	2103	2107
25°	2082	2080	2086
30°	2069	2055	2070
35°	2039	2029	2039
40°	2006	2007	2019
45°	1977	1983	1979
50°	1940	1946	1942
55°	1910	1905	1910
60°	1865	1859	1876
65°	1807	1814	1821
70°	1749	1757	1745
75°	1687	1687	1687
80°	1594	1594	1610
85°	1471	1488	1439



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.1	3.3
10°-20°	429.1	9.4
20°-30°	646.7	14.2
30°-40°	774.5	17.1
40°-50°	801.7	17.7
50°-60°	726.9	16.0
60°-70°	563.6	12.4
70°-80°	342.8	7.5
80°-90°	106.6	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°	1225.9	27.0
0°-40°	2000.4	44.0
0°-60°	3529.1	77.7
0°-90°	4542.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4542.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1588	1578	1579	1577	1580	151
15°	1522	1523	1521	1516	1524	430
25°	1402	1402	1401	1405	1405	647
35°	1242	1233	1235	1240	1242	777
45°	1039	1041	1042	1038	1040	800
55°	814	810	812	815	814	728
65°	568	571	570	568	572	563
75°	325	324	325	324	325	343
85°	95	94	96	95	93	107
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1587.5	1587.5	1587.5	1587.5	1587.5
2.5°	1590.7	1584.3	1584.3	1582.1	1585.3
5°	1587.5	1577.8	1578.9	1576.8	1580.0
7.5°	1582.1	1569.3	1570.3	1568.2	1569.3
10°	1572.5	1557.5	1556.4	1555.3	1556.4
12.5°	1551.1	1542.5	1541.4	1539.3	1542.5
15°	1522.1	1523.2	1521.1	1515.7	1524.3
17.5°	1499.6	1498.6	1496.4	1491.1	1499.6
20°	1469.7	1470.7	1468.6	1466.4	1471.8
22.5°	1440.7	1437.5	1438.6	1437.5	1438.6
25°	1402.2	1402.2	1401.1	1405.4	1405.4
27.5°	1366.8	1362.5	1364.7	1369.0	1371.1
30°	1331.5	1320.8	1322.9	1327.2	1332.5
32.5°	1289.7	1279.0	1281.1	1285.4	1287.6
35°	1241.5	1232.9	1235.1	1240.4	1241.5
37.5°	1192.2	1186.9	1189.0	1193.3	1196.5
40°	1141.9	1139.7	1142.9	1141.9	1149.4
42.5°	1090.5	1089.4	1092.6	1092.6	1093.7
45°	1039.0	1041.2	1042.3	1038.0	1040.1
47.5°	982.3	983.3	987.6	985.5	986.6
50°	926.6	925.5	929.8	930.9	927.6
52.5°	873.0	867.7	871.9	874.1	871.9
55°	814.1	809.8	812.0	815.2	814.1
57.5°	756.2	752.0	753.0	758.4	756.2
60°	693.1	692.0	690.9	695.2	697.3
62.5°	630.9	629.9	627.7	632.0	634.1
65°	567.7	570.9	569.9	567.7	572.0
67.5°	507.7	511.0	507.7	505.6	505.6
70°	444.5	447.8	446.7	444.5	443.5
72.5°	385.6	385.6	383.5	382.4	383.5
75°	324.6	323.5	324.6	323.5	324.6
77.5°	264.6	265.7	265.7	265.7	264.6
80°	205.7	205.7	205.7	206.7	207.8
82.5°	151.0	147.8	151.0	148.9	150.0
85°	95.3	94.3	96.4	95.3	93.2
87.5°	42.8	43.9	43.9	45.0	45.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)