

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: P294394

Luminaire Tested: **24GR-LD5-64-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P294394  
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-LD5-64-FGW080-UNV-L92765-W2A1-U-2700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH FGW080 LENS  
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4372.0 lumens  
Efficiency: N/A  
Efficacy: 95.4 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

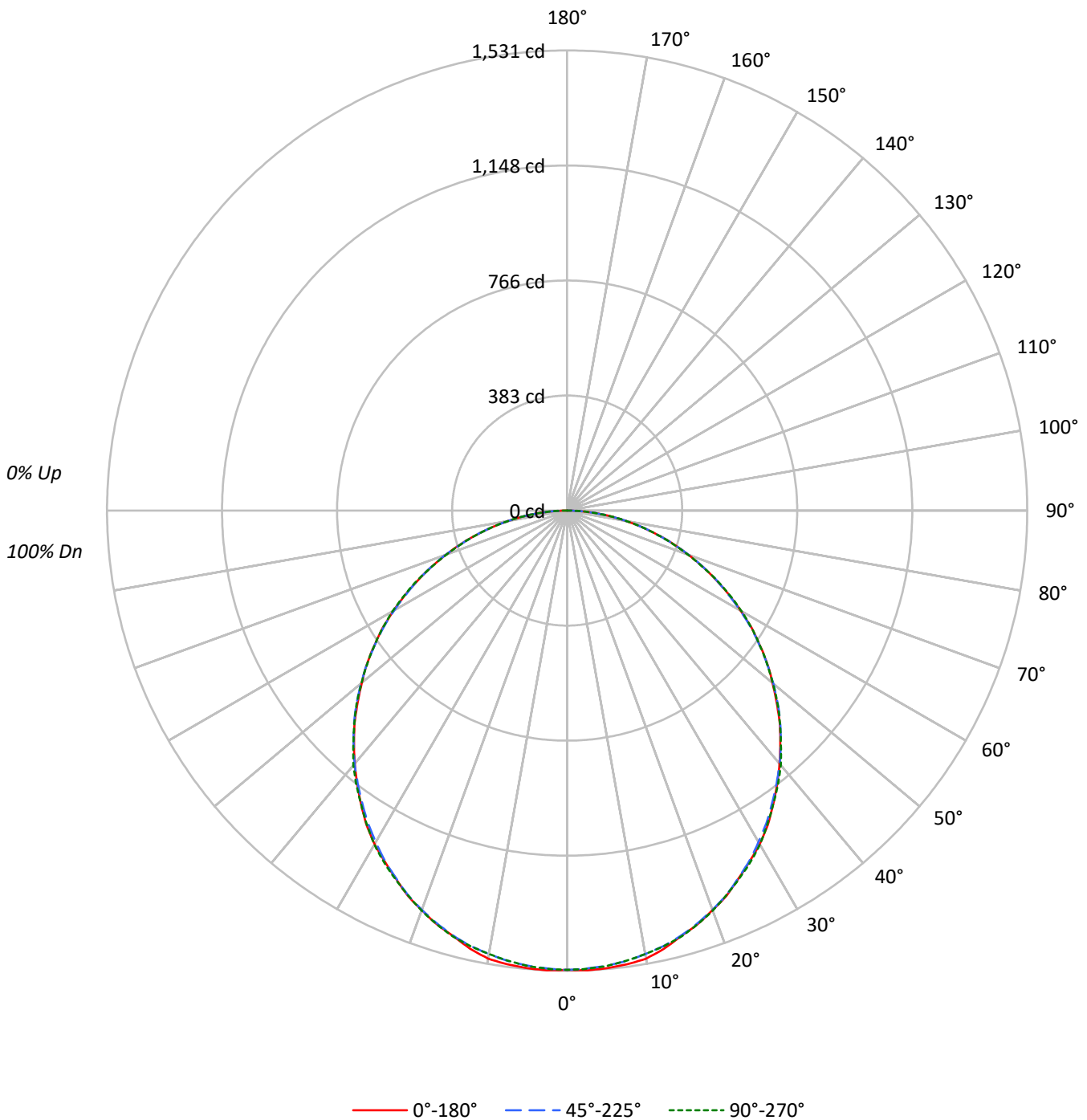
Input Watts (W): 45.849  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2056	2056	2056
5°	2064	2053	2054
10°	2068	2047	2047
15°	2041	2039	2044
20°	2025	2024	2028
25°	2004	2002	2008
30°	1991	1978	1993
35°	1963	1953	1963
40°	1930	1932	1943
45°	1903	1909	1905
50°	1867	1873	1869
55°	1838	1833	1838
60°	1795	1790	1806
65°	1740	1746	1753
70°	1683	1692	1679
75°	1624	1624	1624
80°	1534	1534	1550
85°	1417	1433	1385



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.5	3.3
10°-20°	413.0	9.4
20°-30°	622.5	14.2
30°-40°	745.5	17.1
40°-50°	771.7	17.7
50°-60°	699.7	16.0
60°-70°	542.5	12.4
70°-80°	329.9	7.5
80°-90°	102.6	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°	1180.0	27.0
0°-40°	1925.5	44.0
0°-60°	3397.0	77.7
0°-90°	4372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4372.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1528	1528	1528	1528	1528	
5°	1528	1519	1520	1518	1521	145
15°	1465	1466	1464	1459	1467	414
25°	1350	1350	1349	1353	1353	623
35°	1195	1187	1189	1194	1195	748
45°	1000	1002	1003	999	1001	770
55°	784	780	782	785	784	700
65°	546	550	548	546	551	542
75°	312	311	312	311	312	330
85°	92	91	93	92	90	103
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1528.1	1528.1	1528.1	1528.1	1528.1
2.5°	1531.2	1525.0	1525.0	1522.9	1526.0
5°	1528.1	1518.8	1519.8	1517.8	1520.8
7.5°	1522.9	1510.5	1511.6	1509.5	1510.5
10°	1513.6	1499.2	1498.2	1497.1	1498.2
12.5°	1493.0	1484.8	1483.7	1481.7	1484.8
15°	1465.2	1466.2	1464.1	1459.0	1467.2
17.5°	1443.5	1442.5	1440.4	1435.3	1443.5
20°	1414.6	1415.7	1413.6	1411.6	1416.7
22.5°	1386.8	1383.7	1384.7	1383.7	1384.7
25°	1349.7	1349.7	1348.7	1352.8	1352.8
27.5°	1315.7	1311.5	1313.6	1317.7	1319.8
30°	1281.6	1271.3	1273.4	1277.5	1282.7
32.5°	1241.4	1231.1	1233.2	1237.3	1239.4
35°	1195.0	1186.8	1188.8	1194.0	1195.0
37.5°	1147.6	1142.4	1144.5	1148.6	1151.7
40°	1099.1	1097.1	1100.2	1099.1	1106.4
42.5°	1049.6	1048.6	1051.7	1051.7	1052.7
45°	1000.1	1002.2	1003.2	999.1	1001.2
47.5°	945.5	946.5	950.7	948.6	949.6
50°	891.9	890.9	895.0	896.0	892.9
52.5°	840.3	835.2	839.3	841.4	839.3
55°	783.6	779.5	781.6	784.7	783.6
57.5°	727.9	723.8	724.9	730.0	727.9
60°	667.1	666.1	665.0	669.2	671.2
62.5°	607.3	606.3	604.2	608.3	610.4
65°	546.5	549.6	548.5	546.5	550.6
67.5°	488.7	491.8	488.7	486.7	486.7
70°	427.9	431.0	430.0	427.9	426.9
72.5°	371.2	371.2	369.1	368.1	369.1
75°	312.4	311.4	312.4	311.4	312.4
77.5°	254.7	255.7	255.7	255.7	254.7
80°	198.0	198.0	198.0	199.0	200.0
82.5°	145.4	142.3	145.4	143.3	144.4
85°	91.8	90.7	92.8	91.8	89.7
87.5°	41.2	42.3	42.3	43.3	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)