

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: P293428

Luminaire Tested: **24GR-LD5-42-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4007.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

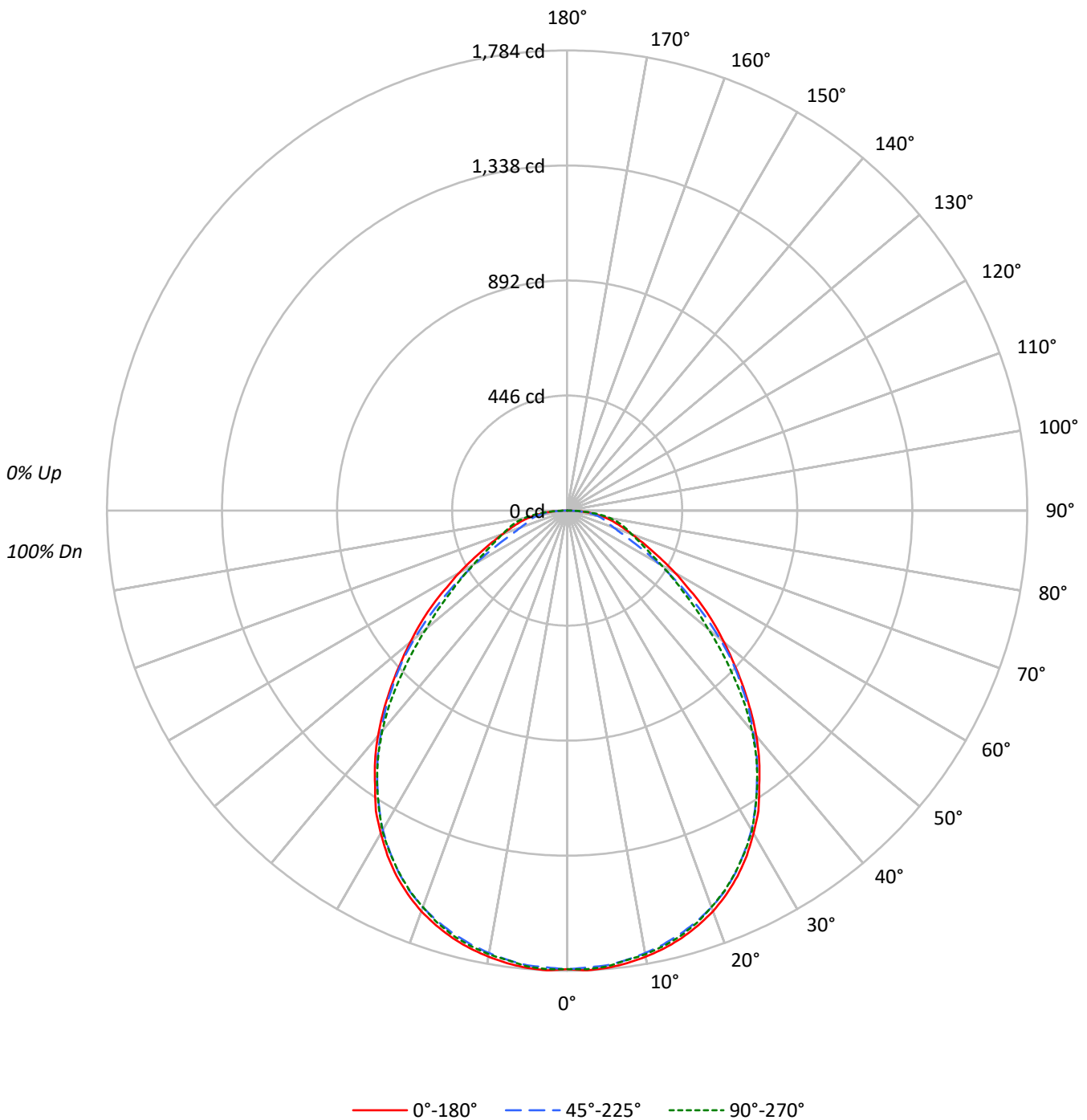
Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2392	2392	2392
5°	2404	2390	2396
10°	2399	2380	2387
15°	2390	2366	2377
20°	2367	2343	2343
25°	2321	2297	2295
30°	2245	2222	2227
35°	2132	2108	2111
40°	2005	1970	1958
45°	1838	1813	1741
50°	1661	1616	1494
55°	1491	1358	1288
60°	1306	1093	1133
65°	1139	859	1043
70°	1042	750	1042
75°	1043	798	1149
80°	1132	940	1309
85°	1243	1061	1405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	4.2
10°-20°	480.5	12.0
20°-30°	712.4	17.8
30°-40°	803.7	20.1
40°-50°	727.9	18.2
50°-60°	525.1	13.1
60°-70°	313.6	7.8
70°-80°	193.8	4.8
80°-90°	81.6	2.0
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°	1361.2	34.0
0°-40°	2164.9	54.0
0°-60°	3418.0	85.3
0°-90°	4007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4007.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1778	1778	1778	1778	1778	
5°	1780	1777	1770	1768	1774	169
15°	1716	1705	1699	1699	1706	484
25°	1564	1555	1547	1541	1546	718
35°	1298	1296	1283	1284	1285	812
45°	966	960	953	929	915	744
55°	636	616	579	550	549	568
65°	358	315	270	306	328	360
75°	201	174	154	191	221	214
85°	80	71	69	90	91	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1777.9	1777.9	1777.9	1777.9	1777.9
2.5°	1784.0	1779.1	1772.9	1776.6	1779.7
5°	1779.7	1777.2	1769.8	1768.0	1774.1
7.5°	1770.4	1764.2	1757.4	1760.5	1758.1
10°	1756.2	1750.6	1742.0	1742.6	1746.9
12.5°	1738.9	1732.1	1722.8	1725.2	1729.0
15°	1716.0	1705.4	1698.6	1699.2	1706.1
17.5°	1686.9	1678.8	1670.1	1672.0	1675.1
20°	1653.4	1649.1	1636.7	1633.0	1636.1
22.5°	1611.3	1603.3	1596.5	1594.6	1595.2
25°	1563.7	1555.0	1547.0	1541.4	1545.7
27.5°	1508.0	1500.5	1490.0	1488.2	1491.9
30°	1444.8	1439.2	1430.0	1427.5	1433.1
32.5°	1380.4	1371.2	1358.2	1358.2	1359.4
35°	1298.1	1296.3	1283.3	1283.9	1285.1
37.5°	1223.8	1215.2	1207.7	1200.3	1204.0
40°	1141.5	1131.6	1121.7	1116.7	1114.9
42.5°	1053.0	1045.5	1041.2	1023.3	1018.9
45°	965.7	959.5	952.7	929.2	914.9
47.5°	876.5	875.3	869.7	828.3	814.0
50°	793.6	791.7	771.9	728.0	713.7
52.5°	715.0	702.6	676.6	633.3	630.8
55°	635.7	615.9	578.8	550.3	549.1
57.5°	552.2	528.7	490.9	475.4	483.5
60°	485.3	449.4	406.1	407.9	420.9
62.5°	416.0	375.8	333.0	351.6	367.1
65°	357.8	315.1	269.9	306.4	327.5
67.5°	307.0	267.4	224.1	273.0	293.4
70°	264.9	232.8	190.7	242.0	264.9
72.5°	231.5	201.8	169.0	217.3	243.9
75°	200.6	173.9	153.5	191.3	221.0
77.5°	173.9	147.9	138.7	169.0	198.1
80°	146.1	122.6	121.3	147.3	169.0
82.5°	113.9	97.8	97.8	123.2	136.2
85°	80.5	70.6	68.7	89.8	91.0
87.5°	41.5	39.6	35.9	47.0	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)