

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: P293619

Luminaire Tested: **24GR-LD5-42-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293619
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-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4025.0 lumens
Efficiency: N/A
Efficacy: 137.4 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

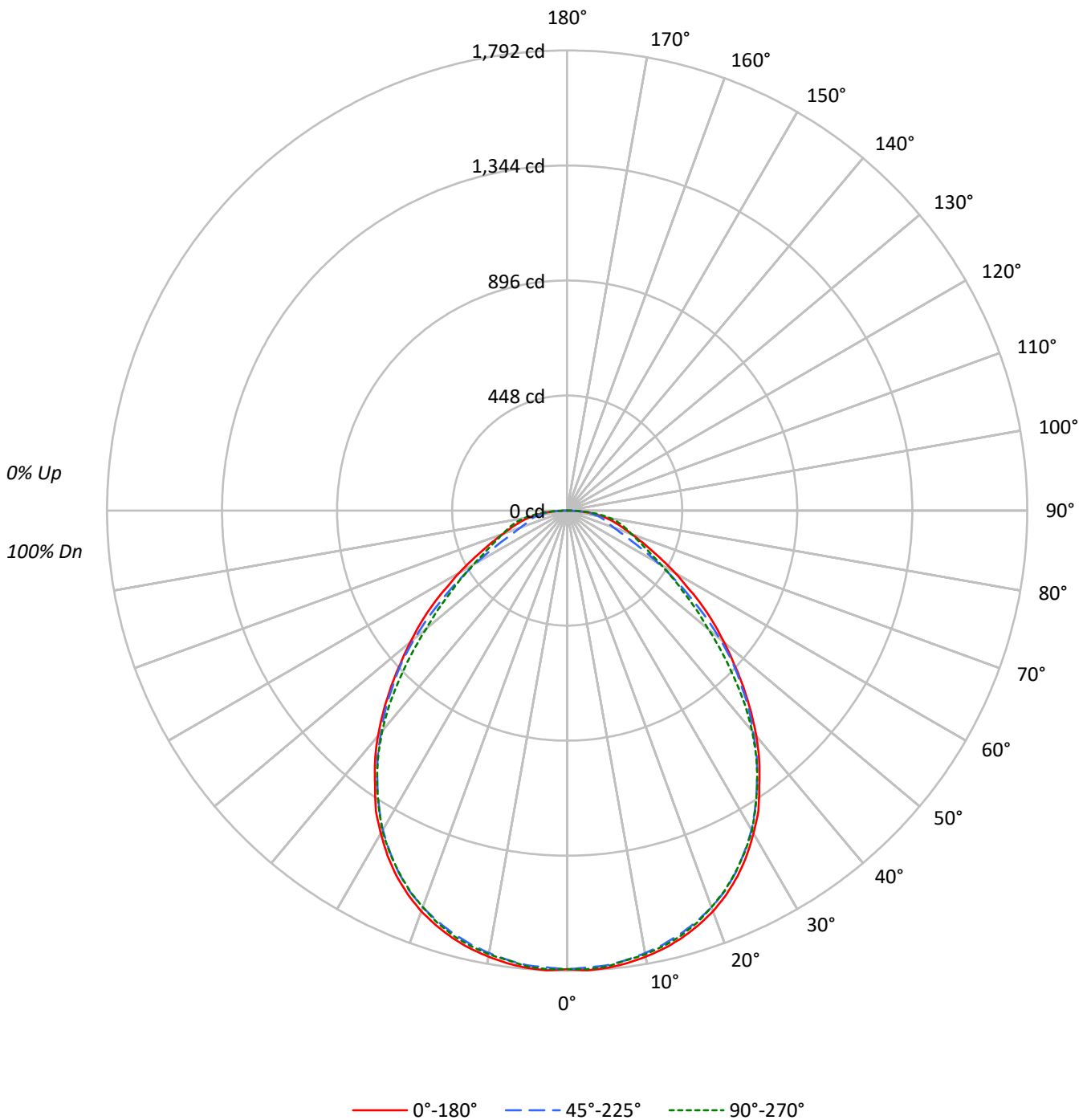
Input Watts (W): 29.295
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2403	2403	2403
5°	2415	2401	2407
10°	2410	2391	2397
15°	2401	2377	2387
20°	2378	2354	2353
25°	2332	2307	2305
30°	2255	2232	2236
35°	2142	2117	2120
40°	2014	1979	1967
45°	1846	1821	1749
50°	1669	1623	1501
55°	1498	1364	1294
60°	1312	1098	1138
65°	1144	863	1047
70°	1047	753	1047
75°	1048	802	1154
80°	1137	945	1316
85°	1247	1065	1411



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	4.2
10°-20°	482.6	12.0
20°-30°	715.6	17.8
30°-40°	807.3	20.1
40°-50°	731.2	18.2
50°-60°	527.5	13.1
60°-70°	315.0	7.8
70°-80°	194.7	4.8
80°-90°	82.0	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°	1367.4	34.0
0°-40°	2174.7	54.0
0°-60°	3433.4	85.3
0°-90°	4025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1786	1786	1786	1786	1786	
5°	1788	1785	1778	1776	1782	170
15°	1724	1713	1706	1707	1714	486
25°	1571	1562	1554	1548	1553	722
35°	1304	1302	1289	1290	1291	816
45°	970	964	957	933	919	748
55°	639	619	581	553	552	570
65°	359	316	271	308	329	362
75°	202	175	154	192	222	215
85°	81	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°	1785.8	1785.8	1785.8	1785.8	1785.8
2.5°	1792.1	1787.1	1780.9	1784.6	1787.7
5°	1787.7	1785.2	1777.8	1775.9	1782.1
7.5°	1778.4	1772.2	1765.3	1768.4	1765.9
10°	1764.1	1758.5	1749.8	1750.4	1754.8
12.5°	1746.7	1739.8	1730.5	1733.0	1736.7
15°	1723.7	1713.1	1706.3	1706.9	1713.7
17.5°	1694.4	1686.4	1677.7	1679.5	1682.6
20°	1660.9	1656.5	1644.1	1640.3	1643.5
22.5°	1618.6	1610.5	1603.7	1601.8	1602.4
25°	1570.7	1562.0	1553.9	1548.3	1552.7
27.5°	1514.7	1507.3	1496.7	1494.8	1498.6
30°	1451.3	1445.7	1436.4	1433.9	1439.5
32.5°	1386.6	1377.3	1364.3	1364.3	1365.5
35°	1303.9	1302.1	1289.0	1289.6	1290.9
37.5°	1229.3	1220.6	1213.2	1205.7	1209.4
40°	1146.6	1136.7	1126.7	1121.7	1119.9
42.5°	1057.7	1050.2	1045.9	1027.9	1023.5
45°	970.0	963.8	957.0	933.3	919.0
47.5°	880.5	879.2	873.6	832.0	817.7
50°	797.2	795.3	775.4	731.3	716.9
52.5°	718.2	705.8	679.6	636.1	633.6
55°	638.6	618.7	581.4	552.8	551.5
57.5°	554.7	531.0	493.1	477.6	485.6
60°	487.5	451.4	407.9	409.8	422.8
62.5°	417.9	377.4	334.5	353.2	368.7
65°	359.4	316.5	271.1	307.8	328.9
67.5°	308.4	268.6	225.1	274.2	294.7
70°	266.1	233.8	191.5	243.1	266.1
72.5°	232.6	202.7	169.8	218.3	245.0
75°	201.5	174.7	154.2	192.1	222.0
77.5°	174.7	148.6	139.3	169.8	199.0
80°	146.7	123.1	121.9	148.0	169.8
82.5°	114.4	98.2	98.2	123.7	136.8
85°	80.8	70.9	69.0	90.2	91.4
87.5°	41.7	39.8	36.1	47.3	47.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)