

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: P293617

Luminaire Tested: **24GR-LD5-42-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293617
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3981.0 lumens
Efficiency: N/A
Efficacy: 138.5 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

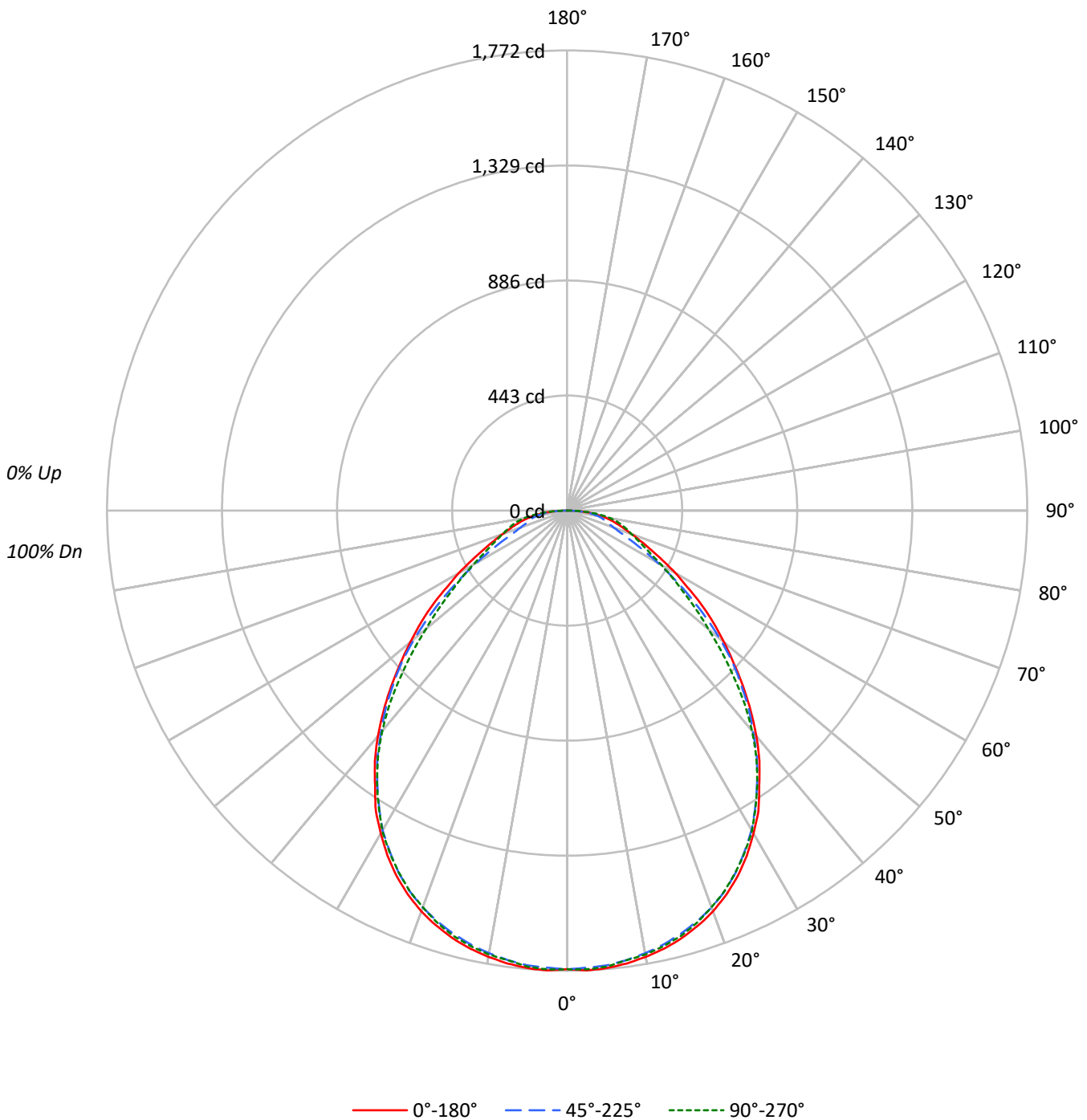
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2377	2377	2377
5°	2388	2375	2381
10°	2384	2365	2371
15°	2375	2351	2361
20°	2352	2328	2327
25°	2306	2282	2280
30°	2230	2207	2212
35°	2118	2094	2097
40°	1992	1957	1945
45°	1826	1801	1730
50°	1650	1605	1484
55°	1482	1349	1280
60°	1298	1086	1125
65°	1132	854	1036
70°	1035	745	1035
75°	1036	793	1142
80°	1124	934	1301
85°	1235	1054	1396



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.3	4.2
10°-20°	477.3	12.0
20°-30°	707.8	17.8
30°-40°	798.5	20.1
40°-50°	723.2	18.2
50°-60°	521.7	13.1
60°-70°	311.5	7.8
70°-80°	192.5	4.8
80°-90°	81.1	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°	1352.4	34.0
0°-40°	2150.9	54.0
0°-60°	3395.8	85.3
0°-90°	3981.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1766	1766	1766	1766	1766	
5°	1768	1766	1758	1756	1763	168
15°	1705	1694	1688	1688	1695	481
25°	1554	1545	1537	1531	1536	714
35°	1290	1288	1275	1276	1277	807
45°	959	953	946	923	909	739
55°	632	612	575	547	546	564
65°	356	313	268	304	325	358
75°	199	173	152	190	220	213
85°	80	70	68	89	90	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.3	1766.3	1766.3	1766.3	1766.3
2.5°	1772.5	1767.6	1761.4	1765.1	1768.2
5°	1768.2	1765.7	1758.3	1756.5	1762.6
7.5°	1758.9	1752.8	1746.0	1749.1	1746.6
10°	1744.8	1739.3	1730.7	1731.3	1735.6
12.5°	1727.6	1720.8	1711.6	1714.0	1717.7
15°	1704.8	1694.4	1687.6	1688.2	1695.0
17.5°	1675.9	1667.9	1659.3	1661.2	1664.2
20°	1642.7	1638.4	1626.1	1622.4	1625.5
22.5°	1600.9	1592.9	1586.1	1584.3	1584.9
25°	1553.5	1544.9	1536.9	1531.4	1535.7
27.5°	1498.2	1490.8	1480.3	1478.5	1482.2
30°	1435.4	1429.9	1420.7	1418.2	1423.8
32.5°	1371.5	1362.3	1349.3	1349.3	1350.6
35°	1289.7	1287.8	1274.9	1275.5	1276.8
37.5°	1215.9	1207.3	1199.9	1192.5	1196.2
40°	1134.1	1124.2	1114.4	1109.5	1107.6
42.5°	1046.1	1038.8	1034.5	1016.6	1012.3
45°	959.4	953.3	946.5	923.1	909.0
47.5°	870.9	869.6	864.1	822.9	808.7
50°	788.4	786.6	766.9	723.3	709.1
52.5°	710.3	698.0	672.2	629.2	626.7
55°	631.6	611.9	575.0	546.7	545.5
57.5°	548.6	525.2	487.7	472.3	480.3
60°	482.2	446.5	403.4	405.3	418.2
62.5°	413.3	373.3	330.9	349.3	364.7
65°	355.5	313.0	268.1	304.4	325.3
67.5°	305.0	265.7	222.6	271.2	291.5
70°	263.2	231.2	189.4	240.5	263.2
72.5°	230.0	200.5	167.9	215.9	242.3
75°	199.3	172.8	152.5	190.0	219.6
77.5°	172.8	147.0	137.8	167.9	196.8
80°	145.1	121.8	120.5	146.4	167.9
82.5°	113.2	97.2	97.2	122.4	135.3
85°	80.0	70.1	68.3	89.2	90.4
87.5°	41.2	39.4	35.7	46.7	46.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)