

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: P293486

Luminaire Tested: **24GR-LD5-42-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293486
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-L82765-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: 4004.0 lumens
Efficiency: N/A
Efficacy: 144.0 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

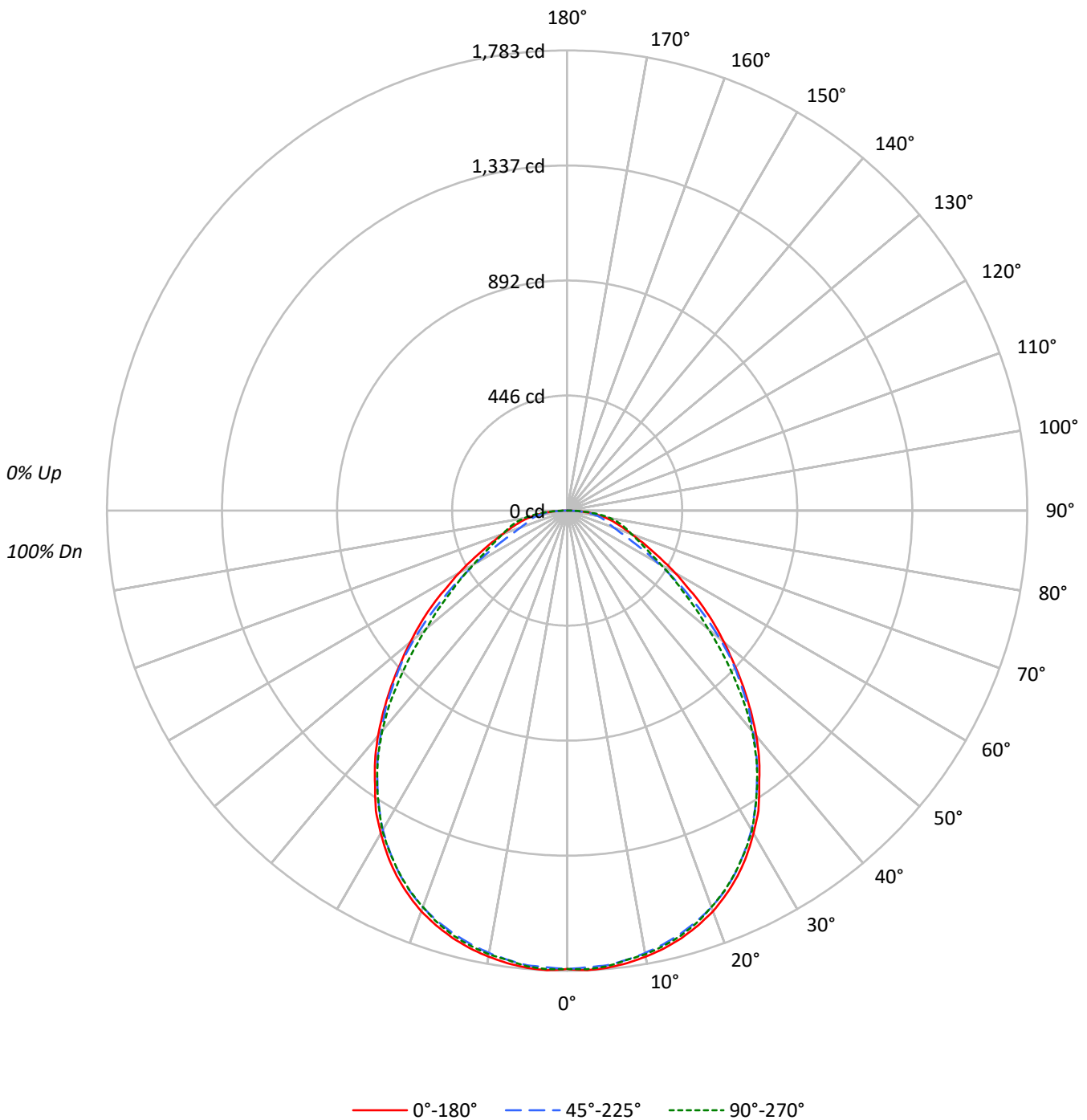
Input Watts (W): 27.807
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2390	2390	2390
5°	2402	2389	2394
10°	2398	2378	2385
15°	2388	2364	2375
20°	2366	2342	2341
25°	2320	2295	2293
30°	2243	2220	2225
35°	2131	2106	2109
40°	2003	1969	1957
45°	1836	1811	1740
50°	1660	1615	1493
55°	1490	1357	1287
60°	1305	1092	1132
65°	1138	859	1042
70°	1041	749	1041
75°	1042	797	1148
80°	1131	939	1309
85°	1241	1061	1403



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	4.2
10°-20°	480.1	12.0
20°-30°	711.9	17.8
30°-40°	803.1	20.1
40°-50°	727.4	18.2
50°-60°	524.8	13.1
60°-70°	313.3	7.8
70°-80°	193.6	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°	1360.2	34.0
0°-40°	2163.3	54.0
0°-60°	3415.4	85.3
0°-90°	4004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4004.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1778	1776	1768	1767	1773	169
15°	1715	1704	1697	1698	1705	483
25°	1562	1554	1546	1540	1545	718
35°	1297	1295	1282	1283	1284	812
45°	965	959	952	928	914	744
55°	635	616	578	550	549	567
65°	358	315	270	306	327	360
75°	200	174	153	191	221	214
85°	80	70	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°	1776.5	1776.5	1776.5	1776.5	1776.5
2.5°	1782.7	1777.8	1771.6	1775.3	1778.4
5°	1778.4	1775.9	1768.5	1766.6	1772.8
7.5°	1769.1	1762.9	1756.1	1759.2	1756.7
10°	1754.9	1749.3	1740.7	1741.3	1745.6
12.5°	1737.6	1730.8	1721.5	1724.0	1727.7
15°	1714.7	1704.2	1697.4	1698.0	1704.8
17.5°	1685.6	1677.6	1668.9	1670.8	1673.8
20°	1652.2	1647.9	1635.5	1631.8	1634.9
22.5°	1610.1	1602.1	1595.3	1593.4	1594.1
25°	1562.5	1553.8	1545.8	1540.2	1544.6
27.5°	1506.8	1499.4	1488.9	1487.0	1490.7
30°	1443.7	1438.2	1428.9	1426.4	1432.0
32.5°	1379.4	1370.1	1357.1	1357.1	1358.4
35°	1297.1	1295.3	1282.3	1282.9	1284.1
37.5°	1222.9	1214.2	1206.8	1199.4	1203.1
40°	1140.6	1130.7	1120.8	1115.9	1114.0
42.5°	1052.2	1044.8	1040.4	1022.5	1018.2
45°	965.0	958.8	952.0	928.5	914.2
47.5°	875.9	874.7	869.1	827.6	813.4
50°	793.0	791.1	771.4	727.4	713.2
52.5°	714.4	702.1	676.1	632.8	630.3
55°	635.3	615.5	578.4	549.9	548.7
57.5°	551.8	528.3	490.5	475.1	483.1
60°	485.0	449.1	405.8	407.6	420.6
62.5°	415.7	375.5	332.8	351.3	366.8
65°	357.5	314.9	269.7	306.2	327.2
67.5°	306.8	267.2	223.9	272.8	293.2
70°	264.7	232.6	190.5	241.9	264.7
72.5°	231.3	201.7	168.9	217.1	243.7
75°	200.4	173.8	153.4	191.1	220.8
77.5°	173.8	147.8	138.6	168.9	197.9
80°	146.0	122.5	121.2	147.2	168.9
82.5°	113.8	97.7	97.7	123.1	136.1
85°	80.4	70.5	68.7	89.7	90.9
87.5°	41.4	39.6	35.9	47.0	47.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)