

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: P293614

Luminaire Tested: **24GR-LD5-42-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293614
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3746.0 lumens
Efficiency: N/A
Efficacy: 132.1 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

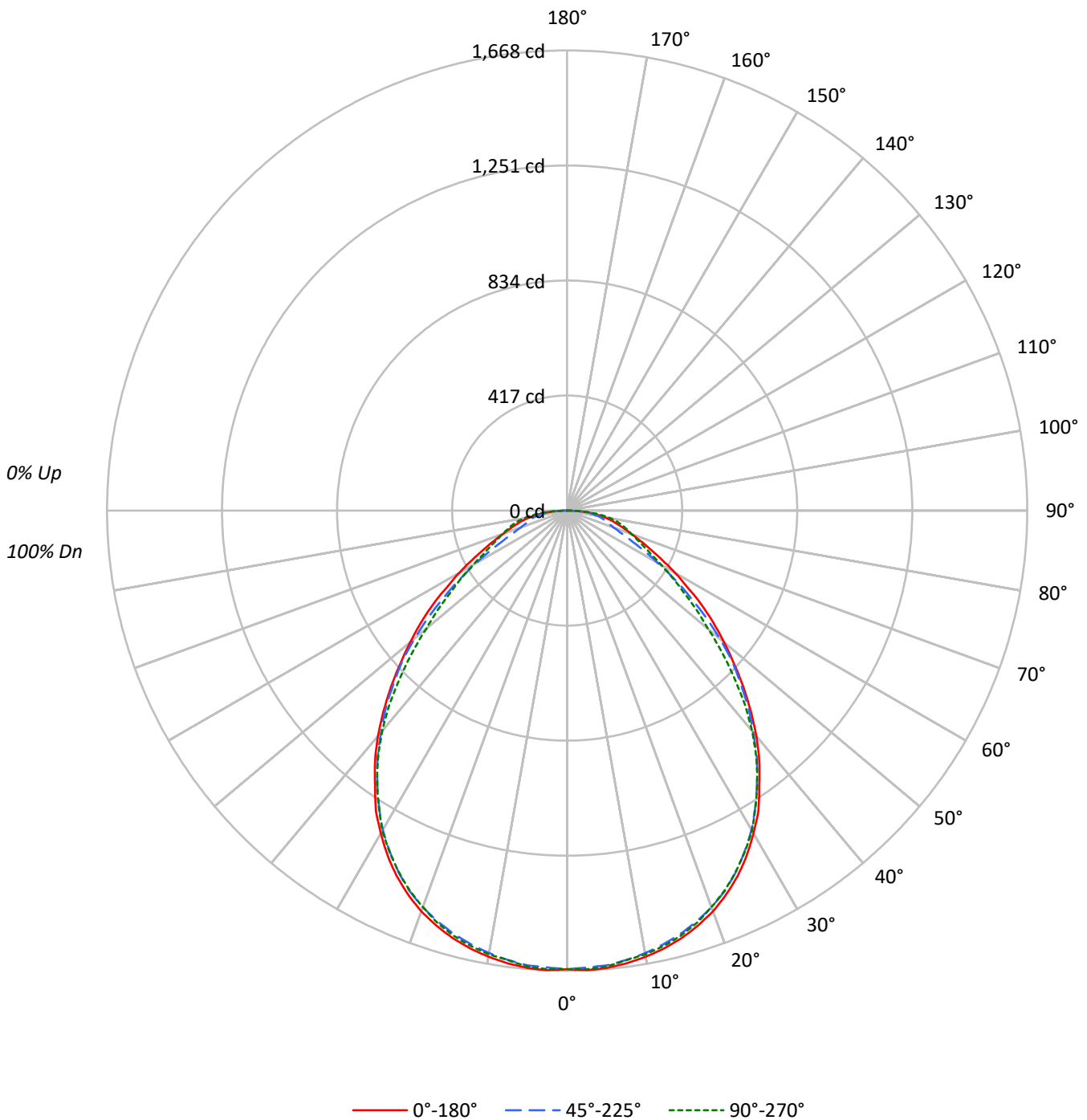
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2236	2236	2236
5°	2247	2235	2240
10°	2243	2225	2231
15°	2235	2212	2222
20°	2213	2191	2190
25°	2170	2147	2145
30°	2098	2077	2081
35°	1993	1971	1973
40°	1874	1842	1831
45°	1718	1695	1627
50°	1553	1511	1397
55°	1394	1269	1204
60°	1221	1021	1059
65°	1065	803	975
70°	974	701	974
75°	975	746	1074
80°	1058	879	1224
85°	1161	991	1314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.4	4.2
10°-20°	449.2	12.0
20°-30°	666.0	17.8
30°-40°	751.3	20.1
40°-50°	680.5	18.2
50°-60°	490.9	13.1
60°-70°	293.1	7.8
70°-80°	181.2	4.8
80°-90°	76.3	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°	1272.6	34.0
0°-40°	2023.9	54.0
0°-60°	3195.4	85.3
0°-90°	3746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1662	1662	1662	1662	1662	
5°	1664	1662	1654	1653	1659	158
15°	1604	1594	1588	1589	1595	452
25°	1462	1454	1446	1441	1445	672
35°	1214	1212	1200	1200	1201	759
45°	903	897	891	869	855	696
55°	594	576	541	514	513	531
65°	334	295	252	286	306	336
75°	188	163	144	179	207	200
85°	75	66	64	84	85	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1662.1	1662.1	1662.1	1662.1	1662.1
2.5°	1667.8	1663.2	1657.4	1660.9	1663.8
5°	1663.8	1661.5	1654.5	1652.8	1658.6
7.5°	1655.1	1649.3	1643.0	1645.9	1643.5
10°	1641.8	1636.6	1628.5	1629.1	1633.1
12.5°	1625.6	1619.2	1610.6	1612.9	1616.3
15°	1604.2	1594.3	1588.0	1588.6	1594.9
17.5°	1577.0	1569.5	1561.4	1563.1	1566.0
20°	1545.7	1541.7	1530.1	1526.6	1529.5
22.5°	1506.4	1498.9	1492.5	1490.8	1491.3
25°	1461.8	1453.7	1446.2	1441.0	1445.0
27.5°	1409.7	1402.8	1393.0	1391.2	1394.7
30°	1350.7	1345.5	1336.8	1334.5	1339.7
32.5°	1290.5	1281.8	1269.7	1269.7	1270.8
35°	1213.6	1211.8	1199.7	1200.2	1201.4
37.5°	1144.1	1136.0	1129.1	1122.1	1125.6
40°	1067.1	1057.9	1048.6	1044.0	1042.3
42.5°	984.4	977.4	973.4	956.6	952.6
45°	902.8	897.0	890.6	868.6	855.3
47.5°	819.5	818.3	813.1	774.3	761.0
50°	741.9	740.2	721.7	680.6	667.3
52.5°	668.4	656.8	632.5	592.0	589.7
55°	594.3	575.8	541.1	514.5	513.3
57.5°	516.2	494.2	458.9	444.4	452.0
60°	453.7	420.1	379.6	381.4	393.5
62.5°	388.9	351.3	311.3	328.7	343.2
65°	334.5	294.6	252.3	286.5	306.1
67.5°	287.0	250.0	209.5	255.2	274.3
70°	247.7	217.6	178.2	226.3	247.7
72.5°	216.4	188.7	158.0	203.1	228.0
75°	187.5	162.6	143.5	178.8	206.6
77.5°	162.6	138.3	129.6	158.0	185.2
80°	136.6	114.6	113.4	137.7	158.0
82.5°	106.5	91.4	91.4	115.2	127.3
85°	75.2	66.0	64.2	83.9	85.1
87.5°	38.8	37.0	33.6	44.0	44.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)