

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: P293737

Luminaire Tested: **24GR-LD5-42-A125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3854.0 lumens
Efficiency: N/A
Efficacy: 137.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

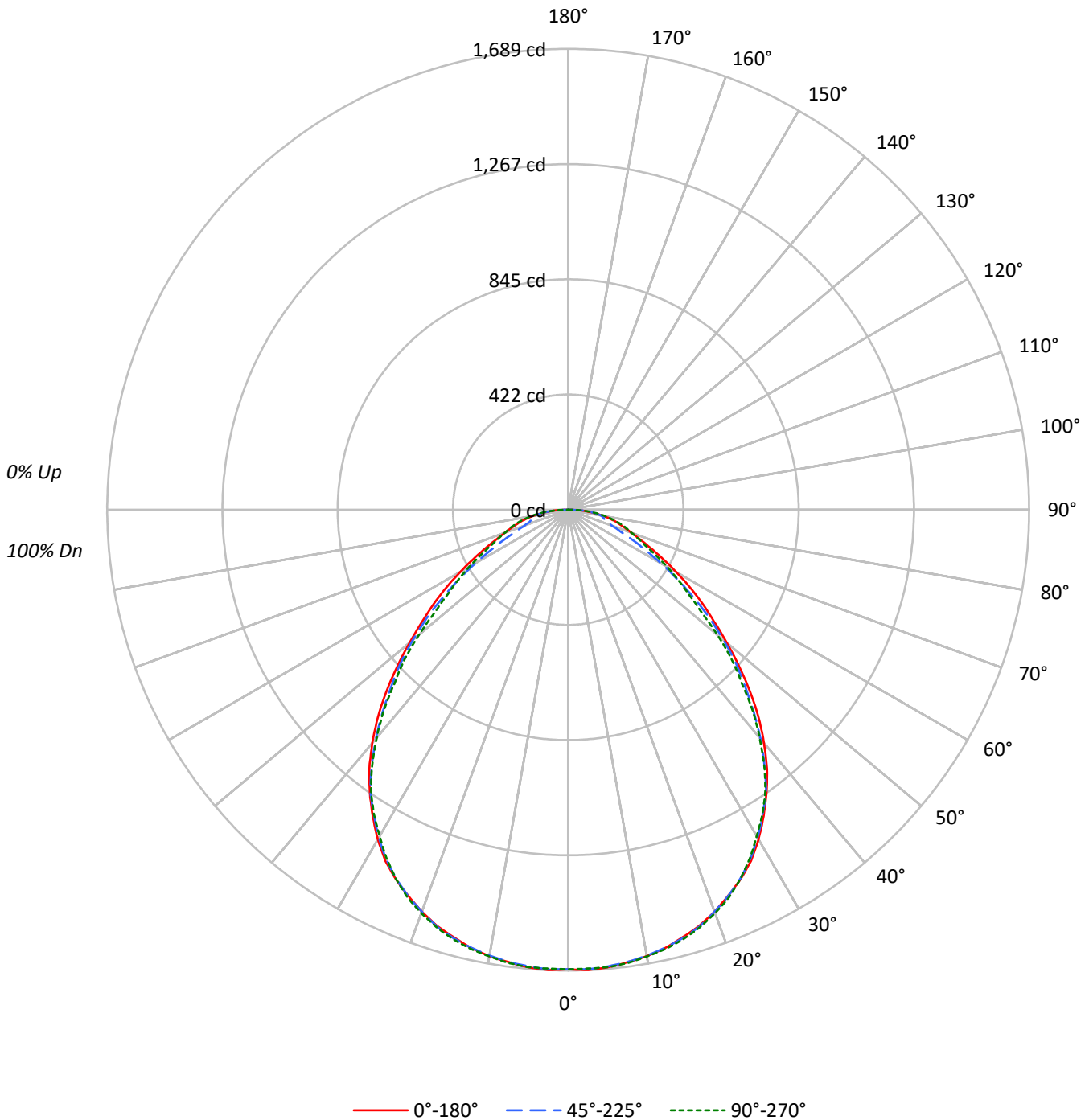
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	2266	2266	2266
5°	2274	2269	2273
10°	2270	2267	2271
15°	2260	2264	2270
20°	2244	2244	2253
25°	2219	2215	2216
30°	2167	2156	2146
35°	2082	2076	2068
40°	1961	1925	1917
45°	1794	1745	1713
50°	1586	1554	1494
55°	1410	1315	1264
60°	1228	1052	1128
65°	1060	815	997
70°	967	667	965
75°	975	719	1025
80°	1016	936	1081
85°	1057	1113	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	4.1
10°-20°	458.2	11.9
20°-30°	685.8	17.8
30°-40°	783.6	20.3
40°-50°	708.5	18.4
50°-60°	509.7	13.2
60°-70°	295.5	7.7
70°-80°	175.3	4.5
80°-90°	77.6	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°	1303.7	33.8
0°-40°	2087.4	54.2
0°-60°	3305.6	85.8
0°-90°	3854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1684	1681	1680	1678	1683	160
15°	1622	1625	1625	1623	1629	458
25°	1495	1493	1492	1489	1493	687
35°	1267	1261	1264	1248	1259	790
45°	943	926	917	908	900	724
55°	601	590	560	546	539	538
65°	333	296	256	286	313	336
75°	188	157	138	171	197	198
85°	68	74	72	83	78	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1684.1	1684.1	1684.1	1684.1	1684.1
2.5°	1688.9	1682.9	1685.9	1684.1	1683.5
5°	1683.5	1681.1	1679.9	1677.5	1682.9
7.5°	1672.6	1670.8	1671.4	1672.0	1675.6
10°	1661.8	1658.8	1659.4	1660.6	1662.4
12.5°	1645.0	1643.2	1643.8	1645.0	1649.2
15°	1622.1	1625.1	1625.1	1623.3	1629.4
17.5°	1599.3	1598.7	1601.7	1596.3	1604.7
20°	1567.4	1568.0	1567.4	1568.0	1573.4
22.5°	1531.3	1534.4	1532.6	1532.6	1538.6
25°	1494.7	1492.9	1491.7	1488.7	1492.9
27.5°	1450.8	1447.2	1444.2	1438.2	1441.2
30°	1394.9	1395.5	1387.7	1382.2	1381.0
32.5°	1332.3	1332.3	1325.1	1320.9	1324.5
35°	1267.4	1261.4	1263.8	1248.2	1259.0
37.5°	1197.1	1187.4	1182.0	1176.6	1180.2
40°	1116.5	1103.9	1096.1	1085.2	1091.2
42.5°	1031.7	1016.1	1006.5	998.7	1001.1
45°	942.7	926.5	916.9	908.5	900.1
47.5°	848.9	838.7	833.9	823.1	813.5
50°	757.6	754.0	742.5	733.5	713.7
52.5°	674.0	671.0	652.9	637.9	612.7
55°	601.2	589.8	560.4	545.9	538.7
57.5°	527.3	508.6	473.2	471.4	476.2
60°	456.3	433.5	390.8	400.4	419.1
62.5°	392.0	357.7	316.9	339.7	361.9
65°	333.1	295.8	256.1	286.2	313.2
67.5°	284.4	247.1	206.2	246.5	277.8
70°	245.9	208.0	169.5	215.8	245.3
72.5°	214.0	179.8	147.9	191.8	222.5
75°	187.6	156.9	138.3	170.8	197.2
77.5°	161.1	136.5	132.3	152.1	168.3
80°	131.1	119.6	120.8	133.5	139.5
82.5°	98.0	98.6	101.6	111.8	109.4
85°	68.5	74.0	72.1	83.0	77.6
87.5°	37.9	41.5	39.1	47.5	42.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)