

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: P293844

Luminaire Tested: **24GR-LD5-30-A125-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293844
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-LD5-30-A125-UNV-L92765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2898.0 lumens
Efficiency: N/A
Efficacy: 138.5 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

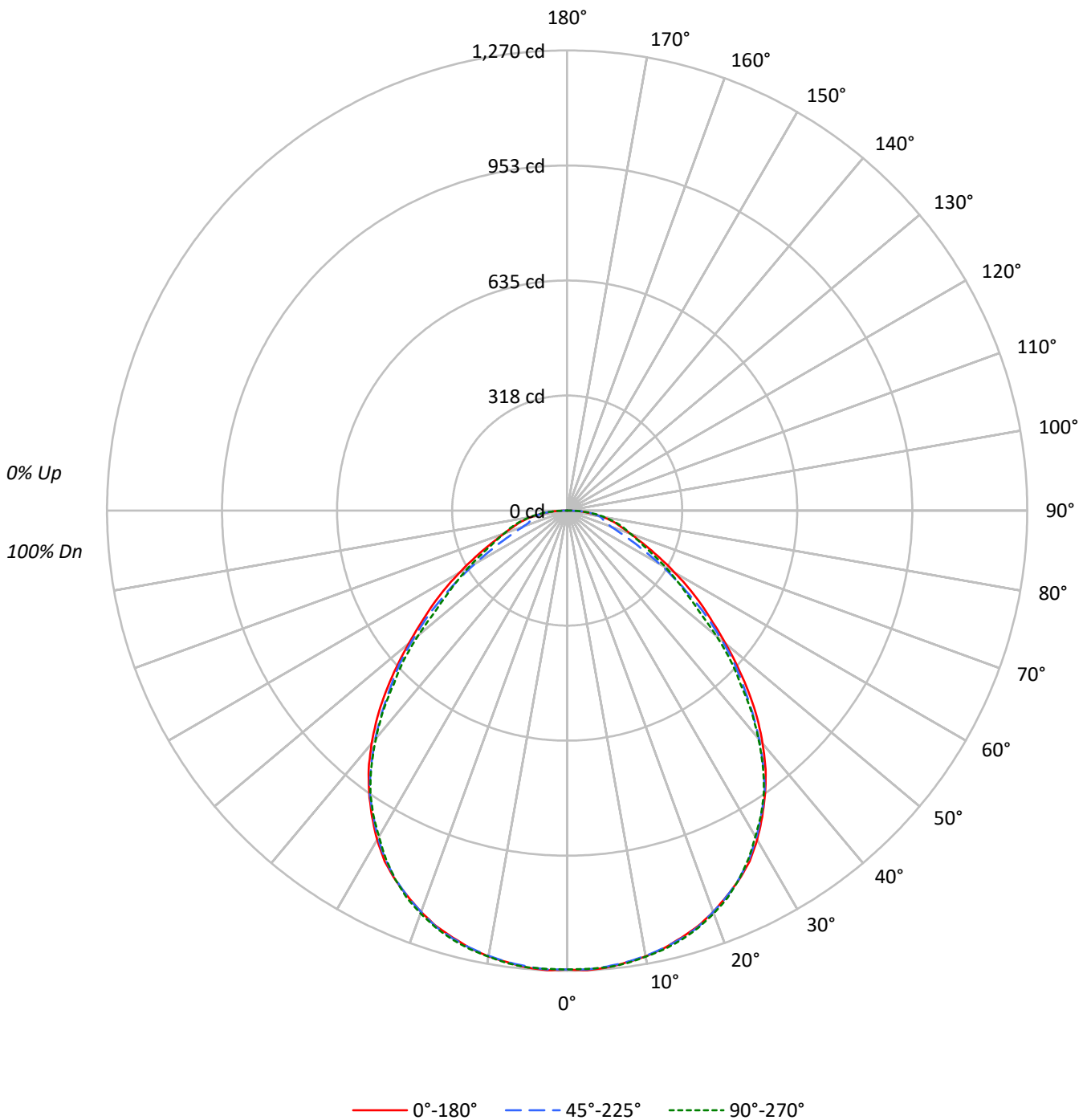
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	1704	1704	1704
5°	1710	1706	1709
10°	1707	1705	1708
15°	1699	1702	1707
20°	1688	1688	1694
25°	1669	1665	1667
30°	1630	1621	1613
35°	1565	1561	1555
40°	1475	1448	1441
45°	1349	1312	1288
50°	1192	1169	1123
55°	1061	989	950
60°	923	791	848
65°	798	613	750
70°	727	502	726
75°	734	541	771
80°	764	704	813
85°	795	838	900



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	4.1
10°-20°	344.5	11.9
20°-30°	515.7	17.8
30°-40°	589.3	20.3
40°-50°	532.7	18.4
50°-60°	383.3	13.2
60°-70°	222.2	7.7
70°-80°	131.8	4.5
80°-90°	58.4	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°	980.3	33.8
0°-40°	1569.6	54.2
0°-60°	2485.6	85.8
0°-90°	2898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1266	1266	1266	1266	1266	
5°	1266	1264	1263	1261	1265	120
15°	1220	1222	1222	1221	1225	344
25°	1124	1123	1122	1119	1123	517
35°	953	948	950	939	947	594
45°	709	697	689	683	677	545
55°	452	444	421	410	405	404
65°	250	222	193	215	236	253
75°	141	118	104	128	148	149
85°	52	56	54	62	58	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1266.3	1266.3	1266.3	1266.3	1266.3
2.5°	1269.9	1265.4	1267.7	1266.3	1265.9
5°	1265.9	1264.1	1263.2	1261.4	1265.4
7.5°	1257.7	1256.4	1256.8	1257.3	1260.0
10°	1249.6	1247.3	1247.8	1248.7	1250.0
12.5°	1236.9	1235.6	1236.0	1236.9	1240.1
15°	1219.8	1222.0	1222.0	1220.7	1225.2
17.5°	1202.6	1202.1	1204.4	1200.3	1206.6
20°	1178.6	1179.1	1178.6	1179.1	1183.1
22.5°	1151.5	1153.8	1152.4	1152.4	1156.9
25°	1123.9	1122.6	1121.7	1119.4	1122.6
27.5°	1090.9	1088.2	1085.9	1081.4	1083.7
30°	1048.9	1049.3	1043.4	1039.4	1038.5
32.5°	1001.8	1001.8	996.4	993.3	996.0
35°	953.0	948.5	950.3	938.6	946.7
37.5°	900.1	892.9	888.8	884.8	887.5
40°	839.5	830.1	824.2	816.0	820.6
42.5°	775.8	764.0	756.8	750.9	752.7
45°	708.9	696.7	689.4	683.1	676.8
47.5°	638.4	630.7	627.1	618.9	611.7
50°	569.6	566.9	558.3	551.6	536.6
52.5°	506.8	504.5	491.0	479.7	460.7
55°	452.1	443.5	421.4	410.5	405.1
57.5°	396.5	382.5	355.8	354.4	358.1
60°	343.1	326.0	293.9	301.1	315.1
62.5°	294.8	269.0	238.3	255.4	272.2
65°	250.5	222.4	192.6	215.2	235.5
67.5°	213.8	185.8	155.1	185.4	208.9
70°	184.9	156.4	127.5	162.3	184.5
72.5°	160.9	135.2	111.2	144.2	167.3
75°	141.1	118.0	104.0	128.4	148.3
77.5°	121.2	102.6	99.5	114.4	126.6
80°	98.6	90.0	90.9	100.4	104.9
82.5°	73.7	74.1	76.4	84.1	82.3
85°	51.5	55.6	54.3	62.4	58.3
87.5°	28.5	31.2	29.4	35.7	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)