

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: P293716

Luminaire Tested: **24GR-LD5-30-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293716
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-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3175.0 lumens
Efficiency: N/A
Efficacy: 154.5 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

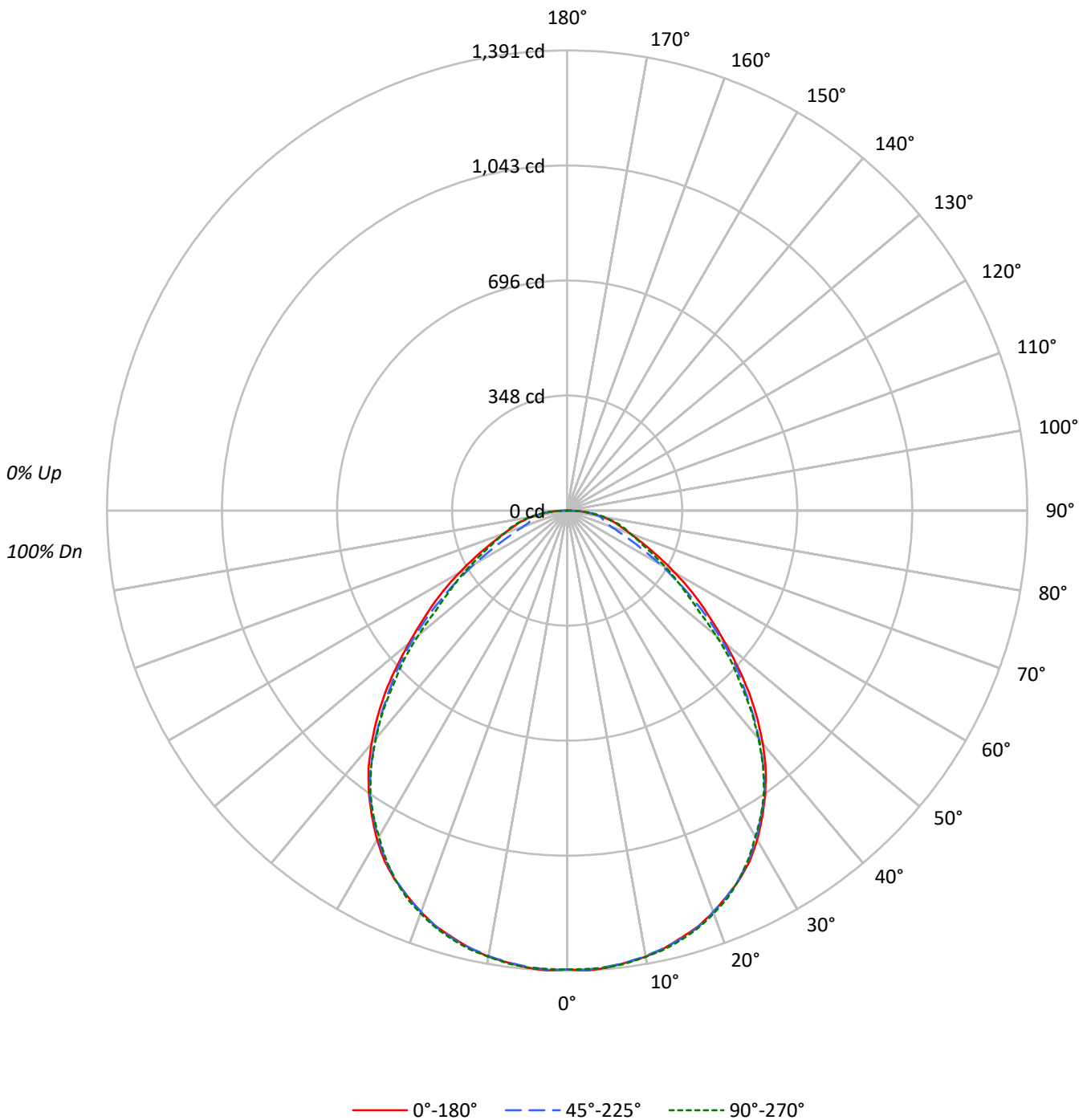
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1867	1867	1867
5°	1873	1869	1873
10°	1870	1868	1871
15°	1861	1865	1870
20°	1849	1849	1856
25°	1828	1824	1826
30°	1785	1776	1768
35°	1715	1710	1704
40°	1616	1586	1579
45°	1478	1437	1411
50°	1306	1280	1231
55°	1162	1083	1041
60°	1012	866	929
65°	874	672	822
70°	797	550	795
75°	803	592	845
80°	837	772	890
85°	872	917	986



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	4.1
10°-20°	377.4	11.9
20°-30°	565.0	17.8
30°-40°	645.6	20.3
40°-50°	583.7	18.4
50°-60°	419.9	13.2
60°-70°	243.4	7.7
70°-80°	144.4	4.5
80°-90°	64.0	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°	1074.0	33.8
0°-40°	1719.6	54.2
0°-60°	2723.2	85.8
0°-90°	3175.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3175.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1387	1387	1387	1387	1387	
5°	1387	1385	1384	1382	1386	132
15°	1336	1339	1339	1337	1342	377
25°	1231	1230	1229	1226	1230	566
35°	1044	1039	1041	1028	1037	651
45°	777	763	755	748	742	597
55°	495	486	462	450	444	443
65°	274	244	211	236	258	277
75°	154	129	114	141	162	163
85°	56	61	59	68	64	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1387.4	1387.4	1387.4	1387.4	1387.4
2.5°	1391.3	1386.4	1388.9	1387.4	1386.9
5°	1386.9	1384.9	1383.9	1381.9	1386.4
7.5°	1378.0	1376.5	1377.0	1377.5	1380.4
10°	1369.0	1366.6	1367.1	1368.0	1369.5
12.5°	1355.2	1353.7	1354.2	1355.2	1358.6
15°	1336.3	1338.8	1338.8	1337.3	1342.3
17.5°	1317.5	1317.0	1319.5	1315.0	1322.0
20°	1291.3	1291.8	1291.3	1291.8	1296.2
22.5°	1261.6	1264.0	1262.5	1262.5	1267.5
25°	1231.3	1229.9	1228.9	1226.4	1229.9
27.5°	1195.2	1192.2	1189.7	1184.8	1187.3
30°	1149.1	1149.6	1143.2	1138.7	1137.7
32.5°	1097.6	1097.6	1091.7	1088.2	1091.2
35°	1044.1	1039.2	1041.1	1028.3	1037.2
37.5°	986.2	978.2	973.8	969.3	972.3
40°	919.8	909.4	903.0	894.0	899.0
42.5°	850.0	837.1	829.1	822.7	824.7
45°	776.6	763.3	755.3	748.4	741.5
47.5°	699.4	691.0	687.0	678.1	670.2
50°	624.1	621.1	611.7	604.3	587.9
52.5°	555.2	552.8	537.9	525.5	504.7
55°	495.3	485.9	461.6	449.7	443.8
57.5°	434.4	419.0	389.8	388.3	392.3
60°	375.9	357.1	322.0	329.9	345.2
62.5°	322.9	294.7	261.0	279.9	298.2
65°	274.4	243.7	211.0	235.8	258.1
67.5°	234.3	203.6	169.9	203.1	228.8
70°	202.6	171.4	139.7	177.8	202.1
72.5°	176.3	148.1	121.8	158.0	183.3
75°	154.5	129.3	113.9	140.7	162.5
77.5°	132.7	112.4	109.0	125.3	138.7
80°	108.0	98.6	99.6	110.0	114.9
82.5°	80.7	81.2	83.7	92.1	90.1
85°	56.5	60.9	59.4	68.4	63.9
87.5°	31.2	34.2	32.2	39.1	35.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)