

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: P293717

Luminaire Tested: **24GR-LD5-30-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293717
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3184.0 lumens
Efficiency: N/A
Efficacy: 154.9 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

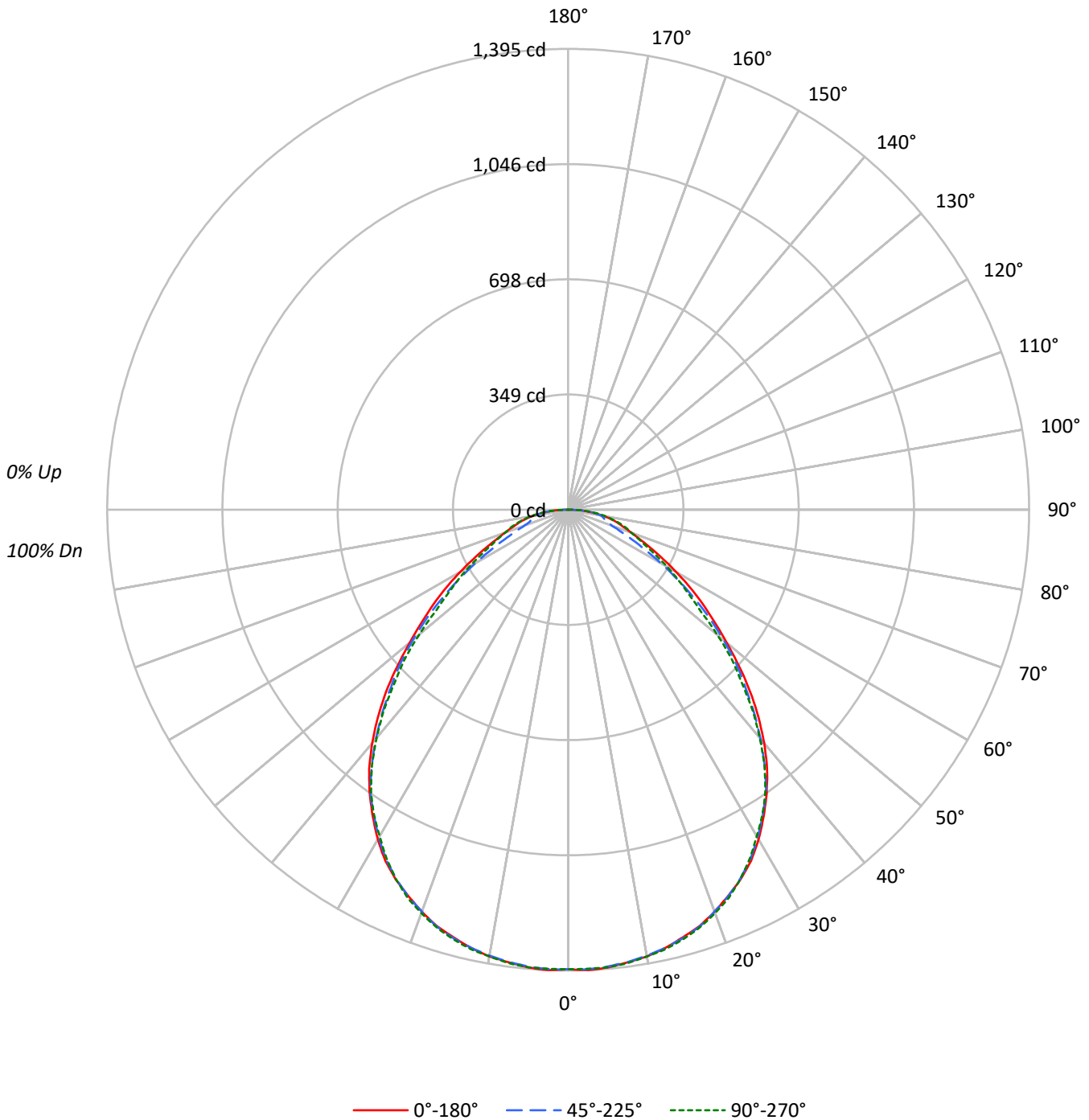
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1872	1872	1872
5°	1878	1874	1878
10°	1876	1873	1876
15°	1867	1870	1875
20°	1854	1854	1861
25°	1833	1829	1831
30°	1790	1781	1773
35°	1720	1715	1708
40°	1620	1590	1583
45°	1482	1441	1415
50°	1310	1284	1234
55°	1165	1086	1044
60°	1014	869	932
65°	876	674	824
70°	799	551	797
75°	806	594	847
80°	839	773	893
85°	874	920	990



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	4.1
10°-20°	378.5	11.9
20°-30°	566.6	17.8
30°-40°	647.4	20.3
40°-50°	585.3	18.4
50°-60°	421.1	13.2
60°-70°	244.1	7.7
70°-80°	144.8	4.5
80°-90°	64.1	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°	1077.1	33.8
0°-40°	1724.5	54.2
0°-60°	2730.9	85.8
0°-90°	3184.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1391	1391	1391	1391	1391	
5°	1391	1389	1388	1386	1390	132
15°	1340	1343	1343	1341	1346	378
25°	1235	1233	1232	1230	1233	568
35°	1047	1042	1044	1031	1040	653
45°	779	765	758	750	744	598
55°	497	487	463	451	445	444
65°	275	244	212	236	259	278
75°	155	130	114	141	163	164
85°	57	61	60	68	64	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1391.3	1391.3	1391.3	1391.3	1391.3
2.5°	1395.3	1390.3	1392.8	1391.3	1390.8
5°	1390.8	1388.8	1387.8	1385.8	1390.3
7.5°	1381.9	1380.4	1380.9	1381.4	1384.3
10°	1372.9	1370.4	1370.9	1371.9	1373.4
12.5°	1359.0	1357.5	1358.0	1359.0	1362.5
15°	1340.1	1342.6	1342.6	1341.1	1346.1
17.5°	1321.3	1320.8	1323.2	1318.8	1325.7
20°	1294.9	1295.4	1294.9	1295.4	1299.9
22.5°	1265.1	1267.6	1266.1	1266.1	1271.1
25°	1234.8	1233.3	1232.3	1229.9	1233.3
27.5°	1198.6	1195.6	1193.1	1188.1	1190.6
30°	1152.4	1152.9	1146.4	1141.9	1141.0
32.5°	1100.7	1100.7	1094.8	1091.3	1094.3
35°	1047.1	1042.1	1044.1	1031.2	1040.1
37.5°	989.0	981.0	976.5	972.1	975.1
40°	922.4	912.0	905.5	896.6	901.5
42.5°	852.4	839.4	831.5	825.0	827.0
45°	778.8	765.4	757.5	750.5	743.6
47.5°	701.4	692.9	688.9	680.0	672.1
50°	625.9	622.9	613.4	606.0	589.6
52.5°	556.8	554.3	539.4	527.0	506.2
55°	496.7	487.3	462.9	451.0	445.1
57.5°	435.6	420.2	390.9	389.4	393.4
60°	377.0	358.1	322.9	330.8	346.2
62.5°	323.9	295.5	261.8	280.6	299.0
65°	275.2	244.4	211.6	236.4	258.8
67.5°	234.9	204.1	170.4	203.7	229.5
70°	203.2	171.9	140.1	178.3	202.7
72.5°	176.8	148.5	122.2	158.5	183.8
75°	155.0	129.6	114.2	141.1	162.9
77.5°	133.1	112.8	109.3	125.7	139.1
80°	108.3	98.8	99.8	110.3	115.2
82.5°	81.0	81.5	83.9	92.4	90.4
85°	56.6	61.1	59.6	68.5	64.1
87.5°	31.3	34.3	32.3	39.2	35.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)