

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: P293462

Luminaire Tested: **24GR-LD5-30-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293462
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-LD5-30-A-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3133.0 lumens
Efficiency: N/A
Efficacy: 153.8 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

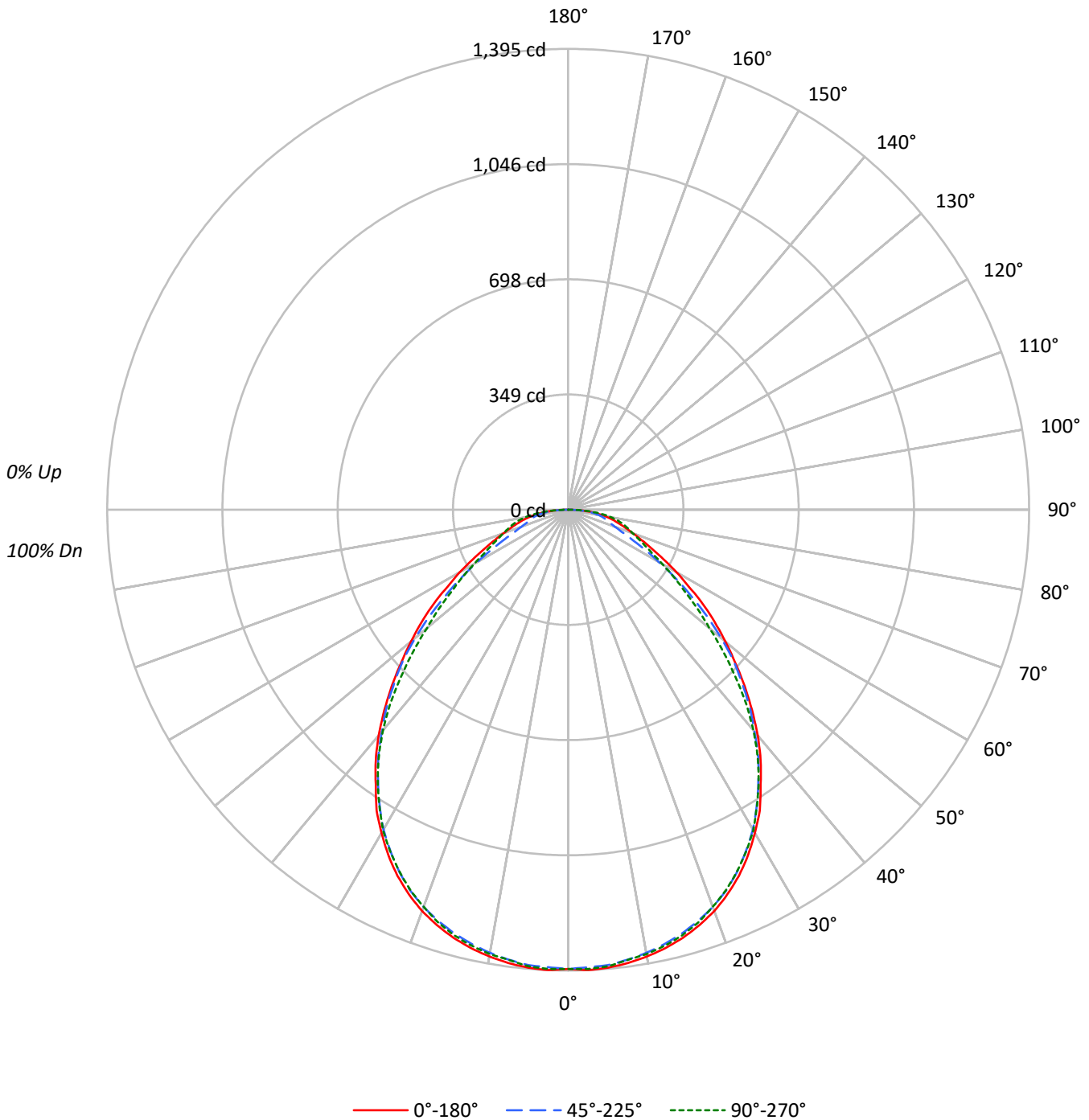
Input Watts (W): 20.367
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293462

CATALOG NUMBER: 24GR-LD5-30-A-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P293462

CATALOG NUMBER: 24GR-LD5-30-A-UNV-L82765-W2A1-U-4500K

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	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	99	96	99	96	93	95	93	90	91	89	88	86																												
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																												
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63																												
4	86	74	66	60	83	73	65	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	46	72	60	52	46	58	51	46	57	50	45	55	49	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°	1870	1870	1870
5°	1879	1869	1874
10°	1876	1861	1866
15°	1869	1850	1858
20°	1851	1832	1832
25°	1815	1796	1794
30°	1755	1737	1741
35°	1667	1648	1650
40°	1568	1540	1531
45°	1437	1417	1361
50°	1299	1263	1168
55°	1166	1061	1007
60°	1021	854	886
65°	891	672	815
70°	815	587	815
75°	815	624	898
80°	885	735	1024
85°	971	829	1098



TEST NUMBER: P293462

CATALOG NUMBER: 24GR-LD5-30-A-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	4.2
10°-20°	375.7	12.0
20°-30°	557.0	17.8
30°-40°	628.4	20.1
40°-50°	569.1	18.2
50°-60°	410.6	13.1
60°-70°	245.2	7.8
70°-80°	151.5	4.8
80°-90°	63.8	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°	1064.3	34.0
0°-40°	1692.7	54.0
0°-60°	2672.5	85.3
0°-90°	3133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3133.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1392	1390	1384	1382	1387	132
15°	1342	1333	1328	1329	1334	378
25°	1223	1216	1210	1205	1209	562
35°	1015	1014	1003	1004	1005	635
45°	755	750	745	726	715	582
55°	497	482	452	430	429	444
65°	280	246	211	240	256	281
75°	157	136	120	150	173	167
85°	63	55	54	70	71	66
90°	0	0	0	0	0	



TEST NUMBER: P293462

CATALOG NUMBER: 24GR-LD5-30-A-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.1	1390.1	1390.1	1390.1	1390.1
2.5°	1394.9	1391.0	1386.2	1389.1	1391.5
5°	1391.5	1389.6	1383.8	1382.3	1387.2
7.5°	1384.3	1379.4	1374.1	1376.5	1374.6
10°	1373.1	1368.8	1362.0	1362.5	1365.9
12.5°	1359.6	1354.3	1347.0	1348.9	1351.8
15°	1341.7	1333.4	1328.1	1328.6	1333.9
17.5°	1318.9	1312.6	1305.9	1307.3	1309.7
20°	1292.8	1289.4	1279.7	1276.8	1279.2
22.5°	1259.9	1253.6	1248.3	1246.8	1247.3
25°	1222.6	1215.8	1209.5	1205.2	1208.6
27.5°	1179.0	1173.2	1165.0	1163.6	1166.5
30°	1129.7	1125.3	1118.1	1116.1	1120.5
32.5°	1079.3	1072.1	1061.9	1061.9	1062.9
35°	1015.0	1013.5	1003.4	1003.8	1004.8
37.5°	956.9	950.1	944.3	938.5	941.4
40°	892.5	884.8	877.0	873.2	871.7
42.5°	823.3	817.5	814.1	800.1	796.7
45°	755.1	750.2	744.9	726.5	715.4
47.5°	685.4	684.4	680.0	647.6	636.5
50°	620.5	619.0	603.6	569.2	558.1
52.5°	559.0	549.4	529.0	495.1	493.2
55°	497.1	481.6	452.5	430.3	429.3
57.5°	431.7	413.3	383.8	371.7	378.0
60°	379.5	351.4	317.5	319.0	329.1
62.5°	325.3	293.8	260.4	274.9	287.0
65°	279.8	246.4	211.0	239.6	256.0
67.5°	240.1	209.1	175.2	213.4	229.4
70°	207.2	182.0	149.1	189.2	207.2
72.5°	181.0	157.8	132.1	169.9	190.7
75°	156.8	136.0	120.0	149.6	172.8
77.5°	136.0	115.7	108.4	132.1	154.9
80°	114.2	95.8	94.9	115.2	132.1
82.5°	89.1	76.5	76.5	96.3	106.5
85°	62.9	55.2	53.7	70.2	71.1
87.5°	32.4	31.0	28.1	36.8	36.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)