

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: P293213

Luminaire Tested: **24GR-LD5-30-F125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P293213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33304)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-5700K  
Description: GRLED 2x4 TUNABLE WHITE TROFFER  
WITH F125 LENS  
Light Source: (336) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3178.0 lumens  
Efficiency: N/A  
Efficacy: 154.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.19 / 1.27  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

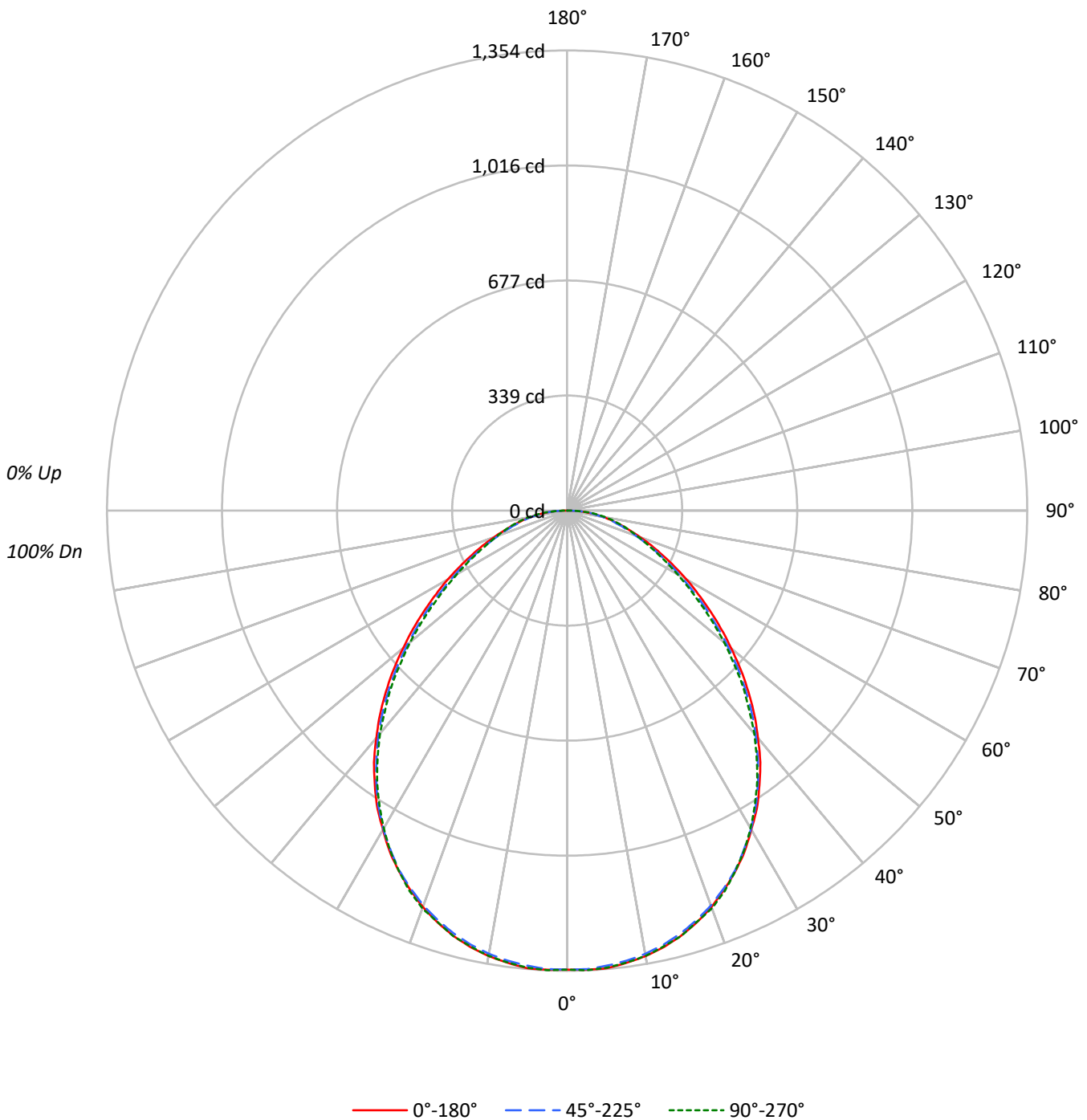
Input Watts (W): 20.553  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P293213

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-5700K

### Luminous Intensity Polar Plot





TEST NUMBER: P293213

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-5700K

**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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	81	98	91	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1817	1817	1817
5°	1826	1816	1823
10°	1818	1809	1818
15°	1804	1794	1805
20°	1777	1770	1783
25°	1739	1734	1738
30°	1684	1681	1677
35°	1620	1608	1602
40°	1534	1516	1504
45°	1435	1408	1391
50°	1319	1283	1261
55°	1202	1158	1125
60°	1092	1033	1006
65°	984	928	912
70°	901	842	866
75°	842	803	862
80°	835	820	900
85°	851	858	982



TEST NUMBER: P293213

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-5700K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.8	4.0
10°-20°	363.4	11.4
20°-30°	536.9	16.9
30°-40°	610.4	19.2
40°-50°	570.0	17.9
50°-60°	443.3	13.9
60°-70°	294.1	9.3
70°-80°	170.2	5.4
80°-90°	61.9	1.9
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°	1028.1	32.4
0°-40°	1638.5	51.6
0°-60°	2651.8	83.4
0°-90°	3178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3178.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1352	1345	1344	1347	1350	128
15°	1295	1289	1288	1288	1296	365
25°	1171	1166	1168	1166	1171	539
35°	986	982	979	972	975	616
45°	754	748	740	731	731	581
55°	513	505	494	481	479	460
65°	309	300	292	286	287	309
75°	162	158	154	161	166	173
85°	55	54	56	63	64	60
90°	0	0	0	0	0	



TEST NUMBER: P293213

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-5700K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1350.6	1350.6	1350.6	1350.6	1350.6
2.5°	1352.6	1348.7	1350.6	1349.2	1353.6
5°	1351.6	1344.7	1344.2	1346.7	1349.7
7.5°	1342.2	1334.8	1336.2	1336.2	1341.2
10°	1330.8	1323.3	1324.3	1324.8	1330.3
12.5°	1315.4	1307.9	1308.4	1307.9	1313.4
15°	1295.0	1288.6	1288.1	1287.6	1296.0
17.5°	1270.2	1261.2	1264.2	1264.7	1269.2
20°	1241.4	1234.4	1236.4	1235.9	1245.3
22.5°	1207.1	1202.1	1203.6	1202.6	1211.6
25°	1171.3	1166.4	1168.3	1165.9	1170.8
27.5°	1131.1	1127.6	1125.6	1124.1	1127.6
30°	1083.9	1081.9	1081.9	1075.5	1079.4
32.5°	1039.2	1032.7	1032.7	1030.2	1027.8
35°	986.5	981.6	979.1	972.1	975.1
37.5°	933.9	922.5	921.5	916.0	916.0
40°	873.3	866.8	863.3	857.4	856.4
42.5°	815.7	809.2	803.2	793.3	791.3
45°	754.1	748.1	740.2	730.7	731.2
47.5°	693.0	684.5	677.1	665.6	664.1
50°	629.9	623.9	613.0	603.0	602.6
52.5°	570.8	561.3	551.4	539.5	539.5
55°	512.6	505.2	493.8	480.8	479.4
57.5°	457.0	450.1	437.1	427.7	425.2
60°	405.8	395.9	384.0	376.0	374.0
62.5°	354.7	345.7	336.8	328.8	328.3
65°	309.0	299.5	291.6	286.1	286.6
67.5°	267.7	259.8	250.9	249.4	249.9
70°	229.0	220.6	214.1	217.6	220.1
72.5°	192.2	187.8	183.3	188.3	191.7
75°	161.9	158.0	154.5	161.4	165.9
77.5°	134.1	131.1	130.6	136.6	140.6
80°	107.8	104.3	105.8	112.8	116.2
82.5°	82.0	79.5	80.0	88.4	90.9
85°	55.1	54.1	55.6	63.1	63.6
87.5°	29.3	29.3	30.3	34.8	33.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)