

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: P293161

Luminaire Tested: **24GR-LD5-30-F125-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293161
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-L83050-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2880.0 lumens
Efficiency: N/A
Efficacy: 144.0 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

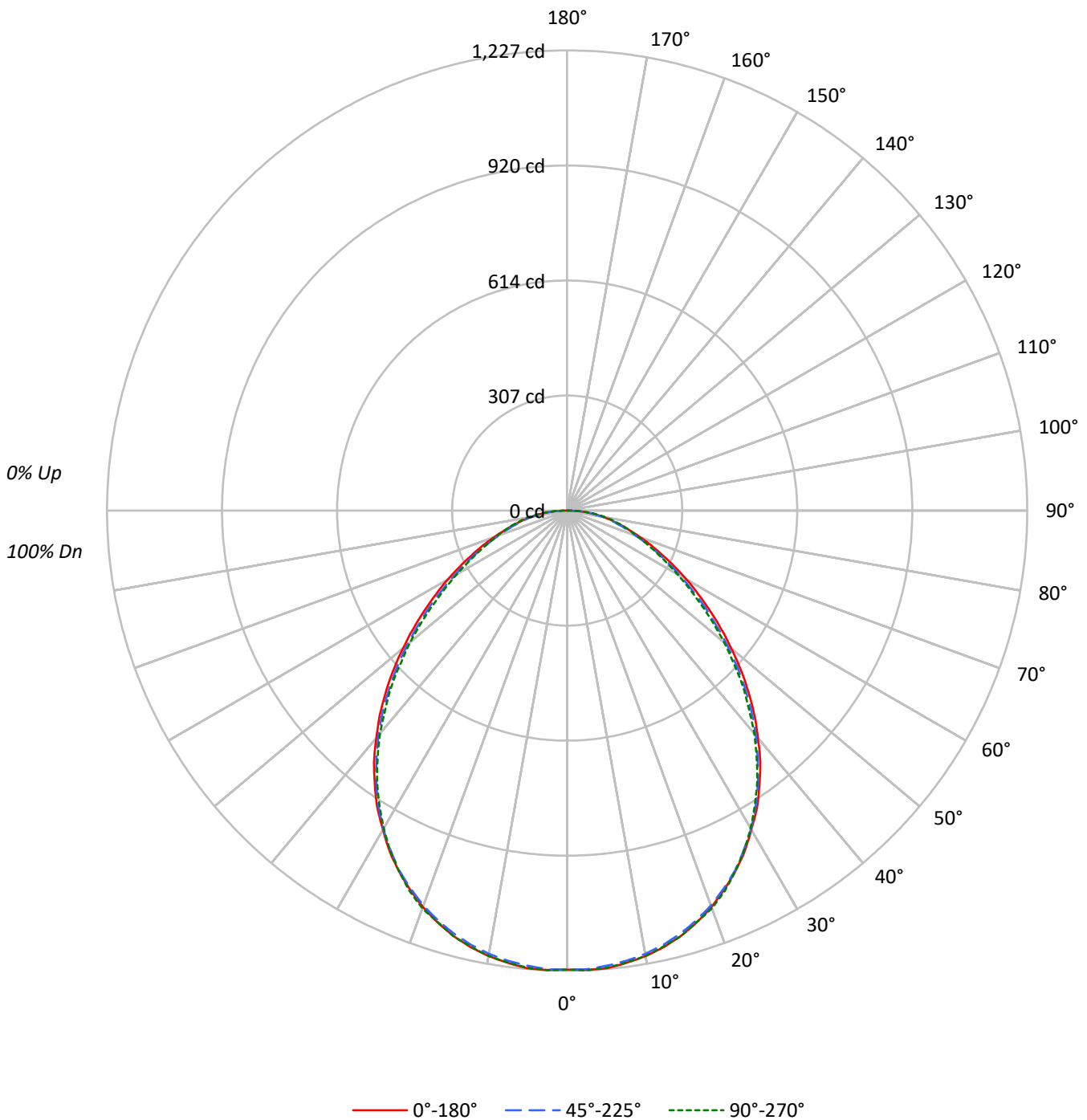
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293161

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L83050-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P293161

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L83050-W2A1-U-3000K

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°	1647	1647	1647
5°	1654	1645	1652
10°	1648	1640	1647
15°	1635	1626	1636
20°	1611	1604	1616
25°	1576	1572	1575
30°	1526	1523	1520
35°	1468	1457	1452
40°	1390	1374	1363
45°	1300	1276	1261
50°	1195	1163	1143
55°	1090	1050	1019
60°	990	936	912
65°	891	841	827
70°	816	763	784
75°	763	728	782
80°	757	743	816
85°	772	778	889



TEST NUMBER: P293161

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L83050-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	4.0
10°-20°	329.3	11.4
20°-30°	486.5	16.9
30°-40°	553.1	19.2
40°-50°	516.5	17.9
50°-60°	401.7	13.9
60°-70°	266.5	9.3
70°-80°	154.3	5.4
80°-90°	56.1	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°	931.7	32.4
0°-40°	1484.9	51.6
0°-60°	2403.1	83.4
0°-90°	2880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1224	1224	1224	1224	1224	
5°	1225	1219	1218	1220	1223	116
15°	1174	1168	1167	1167	1174	331
25°	1062	1057	1059	1056	1061	488
35°	894	890	887	881	884	558
45°	683	678	671	662	663	527
55°	465	458	448	436	434	417
65°	280	271	264	259	260	280
75°	147	143	140	146	150	157
85°	50	49	50	57	58	54
90°	0	0	0	0	0	



TEST NUMBER: P293161

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L83050-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1224.0	1224.0	1224.0	1224.0	1224.0
2.5°	1225.8	1222.2	1224.0	1222.6	1226.7
5°	1224.9	1218.6	1218.1	1220.4	1223.1
7.5°	1216.3	1209.6	1210.9	1210.9	1215.4
10°	1206.0	1199.2	1200.1	1200.6	1205.5
12.5°	1192.0	1185.3	1185.7	1185.3	1190.2
15°	1173.6	1167.7	1167.3	1166.8	1174.5
17.5°	1151.1	1143.0	1145.7	1146.1	1150.2
20°	1125.0	1118.7	1120.5	1120.0	1128.6
22.5°	1093.9	1089.4	1090.8	1089.9	1098.0
25°	1061.5	1057.0	1058.8	1056.5	1061.0
27.5°	1025.0	1021.9	1020.1	1018.7	1021.9
30°	982.3	980.5	980.5	974.6	978.2
32.5°	941.7	935.9	935.9	933.6	931.4
35°	894.0	889.5	887.3	881.0	883.7
37.5°	846.3	836.0	835.1	830.1	830.1
40°	791.4	785.5	782.4	777.0	776.1
42.5°	739.2	733.3	727.9	718.9	717.1
45°	683.4	677.9	670.7	662.2	662.6
47.5°	628.0	620.3	613.6	603.2	601.9
50°	570.8	565.4	555.5	546.5	546.1
52.5°	517.2	508.7	499.7	488.9	488.9
55°	464.6	457.8	447.5	435.8	434.4
57.5°	414.2	407.8	396.1	387.6	385.3
60°	367.8	358.8	348.0	340.8	339.0
62.5°	321.4	313.3	305.2	298.0	297.6
65°	280.0	271.4	264.2	259.3	259.7
67.5°	242.6	235.4	227.3	226.0	226.4
70°	207.5	199.9	194.0	197.2	199.4
72.5°	174.2	170.2	166.1	170.6	173.8
75°	146.8	143.2	140.0	146.3	150.4
77.5°	121.5	118.8	118.4	123.8	127.4
80°	97.7	94.5	95.9	102.2	105.3
82.5°	74.3	72.0	72.5	80.1	82.4
85°	50.0	49.1	50.4	57.2	57.6
87.5°	26.6	26.6	27.5	31.5	30.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)