

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: P293207

Luminaire Tested: **24GR-LD5-30-F125-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293207
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-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: 2878.0 lumens
Efficiency: N/A
Efficacy: 145.3 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

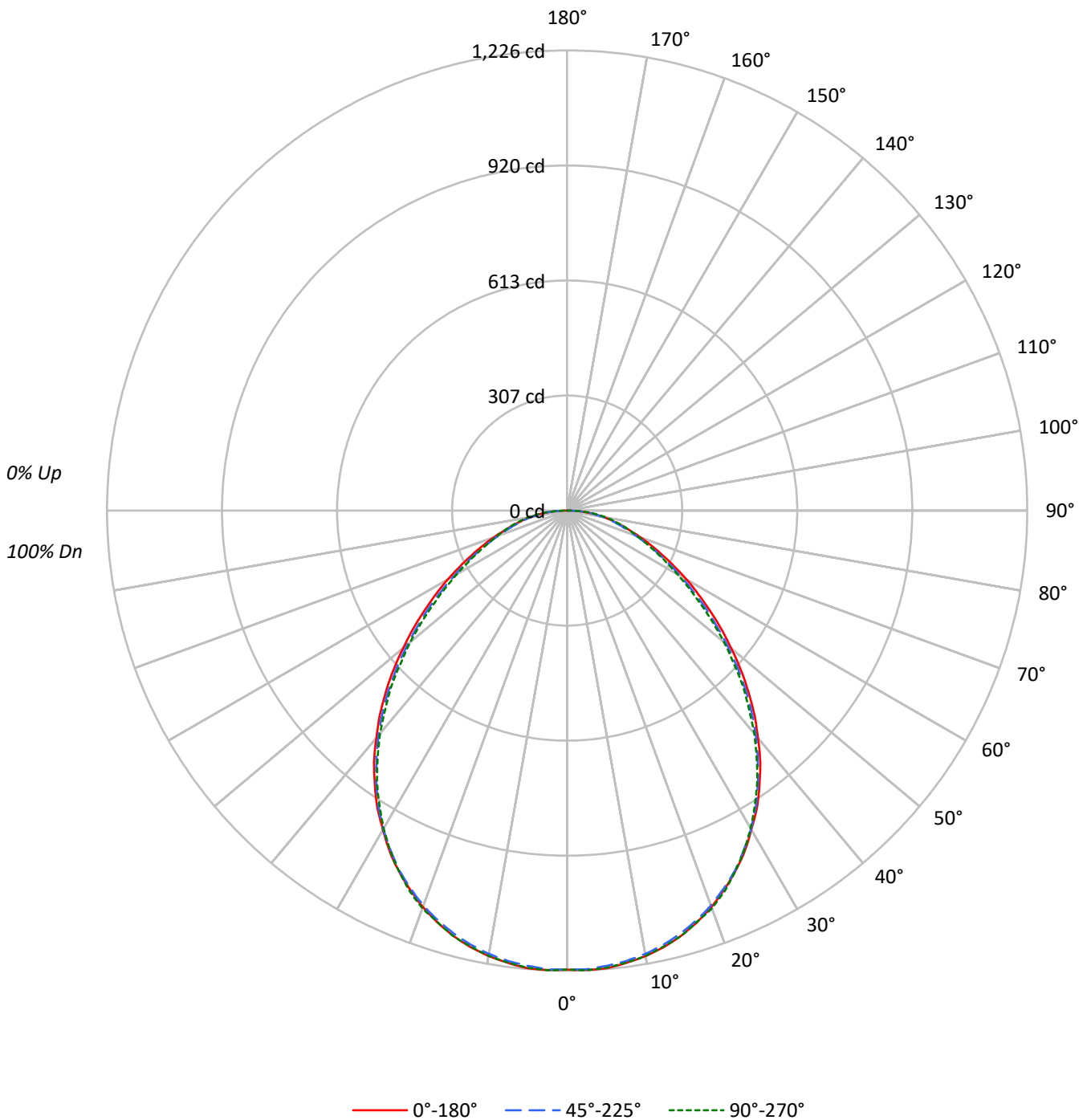
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293207

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P293207

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-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	73	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°	1646	1646	1646
5°	1653	1644	1651
10°	1647	1639	1646
15°	1634	1625	1635
20°	1610	1603	1615
25°	1575	1571	1574
30°	1525	1522	1519
35°	1467	1456	1451
40°	1389	1373	1362
45°	1299	1275	1260
50°	1194	1162	1142
55°	1089	1049	1018
60°	989	936	911
65°	891	841	826
70°	816	763	784
75°	763	727	781
80°	756	742	816
85°	770	778	889



TEST NUMBER: P293207

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.8	4.0
10°-20°	329.1	11.4
20°-30°	486.2	16.9
30°-40°	552.8	19.2
40°-50°	516.2	17.9
50°-60°	401.4	13.9
60°-70°	266.4	9.3
70°-80°	154.1	5.4
80°-90°	56.0	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°	931.1	32.4
0°-40°	1483.8	51.6
0°-60°	2401.4	83.4
0°-90°	2878.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2878.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1224	1218	1217	1220	1222	116
15°	1173	1167	1166	1166	1174	330
25°	1061	1056	1058	1056	1060	488
35°	893	889	887	880	883	558
45°	683	678	670	662	662	526
55°	464	458	447	436	434	416
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: P293207

CATALOG NUMBER: 24GR-LD5-30-F125-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.1	1223.1	1223.1	1223.1	1223.1
2.5°	1224.9	1221.4	1223.1	1221.8	1225.8
5°	1224.0	1217.8	1217.3	1219.6	1222.2
7.5°	1215.5	1208.8	1210.1	1210.1	1214.6
10°	1205.2	1198.4	1199.3	1199.8	1204.7
12.5°	1191.2	1184.5	1184.9	1184.5	1189.4
15°	1172.8	1166.9	1166.5	1166.0	1173.7
17.5°	1150.3	1142.2	1144.9	1145.3	1149.4
20°	1124.2	1117.9	1119.7	1119.2	1127.8
22.5°	1093.1	1088.6	1090.0	1089.1	1097.2
25°	1060.8	1056.3	1058.1	1055.8	1060.3
27.5°	1024.3	1021.2	1019.4	1018.0	1021.2
30°	981.6	979.8	979.8	973.9	977.5
32.5°	941.1	935.2	935.2	933.0	930.7
35°	893.4	888.9	886.7	880.4	883.1
37.5°	845.7	835.4	834.5	829.5	829.5
40°	790.8	785.0	781.8	776.4	775.5
42.5°	738.7	732.8	727.4	718.4	716.6
45°	682.9	677.5	670.3	661.7	662.2
47.5°	627.5	619.9	613.1	602.8	601.5
50°	570.4	565.0	555.1	546.1	545.7
52.5°	516.9	508.3	499.3	488.5	488.5
55°	464.2	457.5	447.2	435.5	434.1
57.5°	413.9	407.6	395.9	387.3	385.1
60°	367.5	358.5	347.7	340.5	338.7
62.5°	321.2	313.1	305.0	297.8	297.4
65°	279.8	271.3	264.1	259.1	259.6
67.5°	242.5	235.3	227.2	225.8	226.3
70°	207.4	199.7	193.9	197.0	199.3
72.5°	174.1	170.0	166.0	170.5	173.6
75°	146.7	143.1	139.9	146.2	150.3
77.5°	121.5	118.8	118.3	123.7	127.3
80°	97.6	94.5	95.8	102.1	105.3
82.5°	74.2	72.0	72.4	80.1	82.3
85°	49.9	49.0	50.4	57.1	57.6
87.5°	26.5	26.5	27.4	31.5	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)