

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: P293162

Luminaire Tested: **24GR-LD5-30-F125-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293162
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3048.0 lumens
Efficiency: N/A
Efficacy: 152.4 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

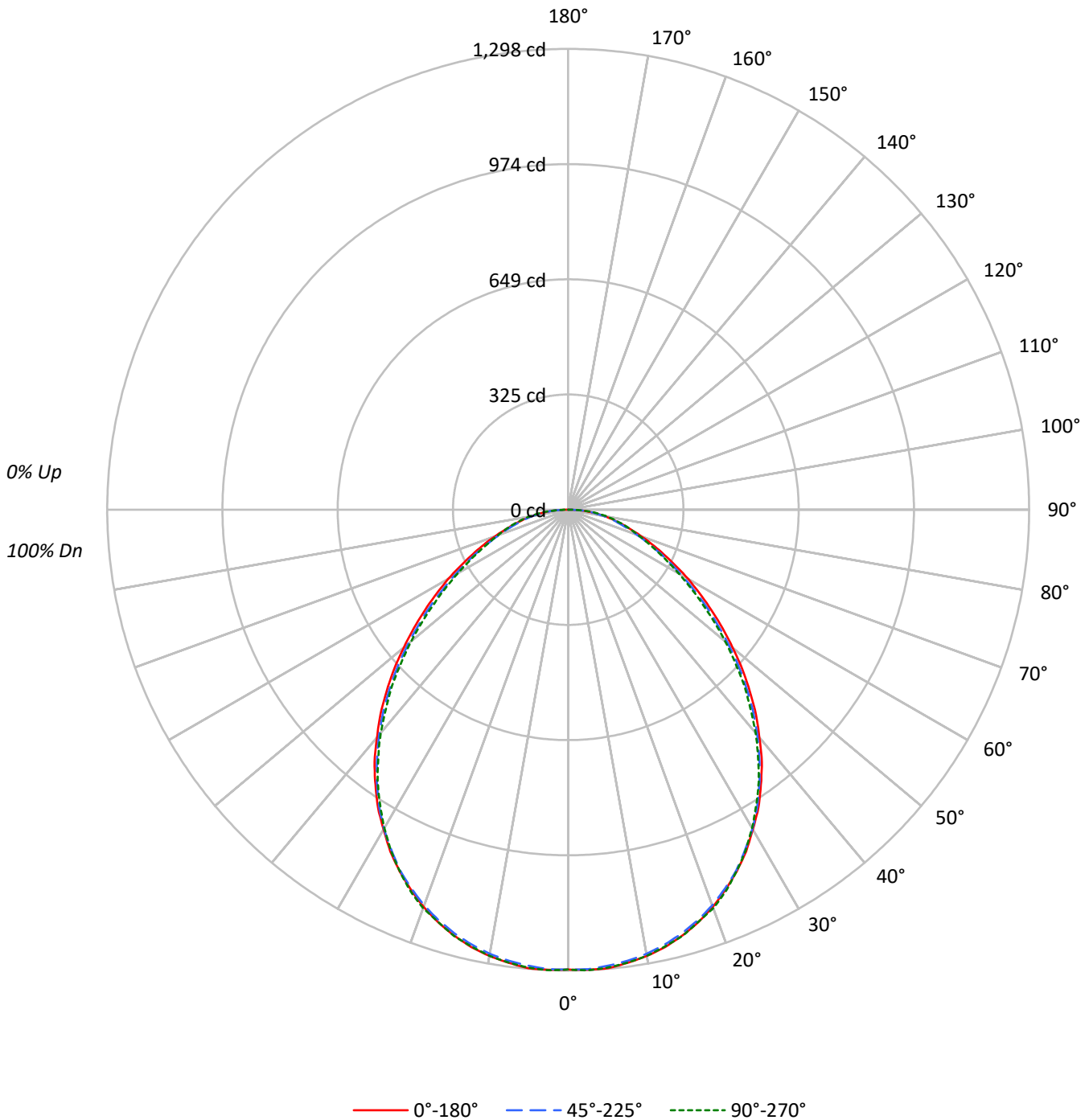
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1743	1743	1743
5°	1751	1741	1748
10°	1744	1735	1743
15°	1730	1721	1731
20°	1705	1698	1710
25°	1668	1664	1667
30°	1615	1612	1608
35°	1554	1542	1536
40°	1471	1454	1443
45°	1376	1351	1334
50°	1265	1231	1210
55°	1153	1111	1079
60°	1047	991	965
65°	943	890	875
70°	864	808	830
75°	807	770	827
80°	801	786	864
85°	817	824	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	4.0
10°-20°	348.5	11.4
20°-30°	514.9	16.9
30°-40°	585.4	19.2
40°-50°	546.7	17.9
50°-60°	425.1	13.9
60°-70°	282.1	9.3
70°-80°	163.2	5.4
80°-90°	59.4	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°	986.1	32.4
0°-40°	1571.5	51.6
0°-60°	2543.3	83.4
0°-90°	3048.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3048.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1296	1290	1289	1292	1294	123
15°	1242	1236	1235	1235	1243	350
25°	1123	1119	1121	1118	1123	517
35°	946	941	939	932	935	591
45°	723	718	710	701	701	557
55°	492	484	474	461	460	441
65°	296	287	280	274	275	296
75°	155	152	148	155	159	166
85°	53	52	53	60	61	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1295.4	1295.4	1295.4	1295.4	1295.4
2.5°	1297.3	1293.5	1295.4	1294.0	1298.3
5°	1296.4	1289.7	1289.2	1291.6	1294.4
7.5°	1287.3	1280.2	1281.6	1281.6	1286.3
10°	1276.3	1269.2	1270.1	1270.6	1275.9
12.5°	1261.6	1254.4	1254.9	1254.4	1259.7
15°	1242.0	1235.8	1235.4	1234.9	1243.0
17.5°	1218.2	1209.6	1212.5	1213.0	1217.3
20°	1190.6	1183.9	1185.8	1185.3	1194.4
22.5°	1157.7	1152.9	1154.4	1153.4	1162.0
25°	1123.4	1118.6	1120.6	1118.2	1122.9
27.5°	1084.8	1081.5	1079.6	1078.1	1081.5
30°	1039.6	1037.7	1037.7	1031.5	1035.3
32.5°	996.7	990.5	990.5	988.1	985.7
35°	946.2	941.4	939.0	932.4	935.2
37.5°	895.7	884.7	883.8	878.5	878.5
40°	837.6	831.4	828.0	822.3	821.4
42.5°	782.3	776.1	770.4	760.9	758.9
45°	723.2	717.5	709.9	700.8	701.3
47.5°	664.6	656.5	649.4	638.4	637.0
50°	604.1	598.4	587.9	578.4	577.9
52.5°	547.4	538.4	528.8	517.4	517.4
55°	491.7	484.5	473.6	461.2	459.8
57.5°	438.3	431.6	419.3	410.2	407.8
60°	389.2	379.7	368.3	360.7	358.7
62.5°	340.2	331.6	323.0	315.4	314.9
65°	296.3	287.3	279.7	274.4	274.9
67.5°	256.8	249.2	240.6	239.2	239.6
70°	219.6	211.5	205.3	208.7	211.1
72.5°	184.4	180.1	175.8	180.6	183.9
75°	155.3	151.5	148.2	154.8	159.1
77.5°	128.6	125.8	125.3	131.0	134.8
80°	103.4	100.0	101.5	108.1	111.5
82.5°	78.6	76.2	76.7	84.8	87.2
85°	52.9	51.9	53.4	60.5	61.0
87.5°	28.1	28.1	29.1	33.3	31.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)