

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: P293339

Luminaire Tested: **24GR-LD5-30-F125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293339
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2873.0 lumens
Efficiency: N/A
Efficacy: 139.2 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

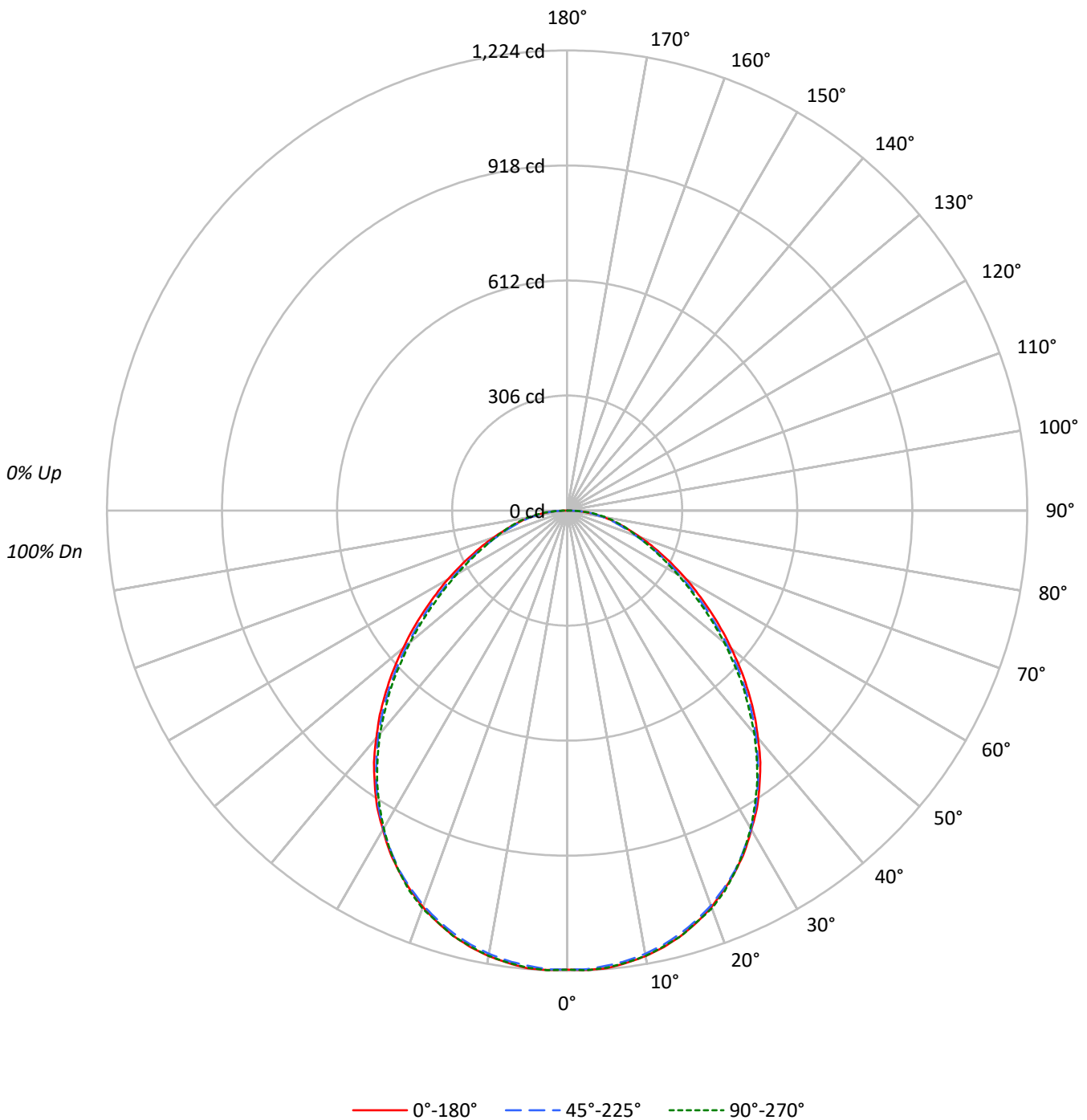
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1643	1643	1643
5°	1650	1641	1648
10°	1644	1636	1643
15°	1631	1622	1632
20°	1607	1600	1612
25°	1572	1568	1571
30°	1522	1520	1516
35°	1465	1454	1448
40°	1387	1371	1360
45°	1297	1273	1258
50°	1192	1160	1140
55°	1087	1047	1017
60°	987	934	910
65°	889	839	825
70°	814	761	782
75°	761	726	780
80°	755	742	814
85°	769	777	888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	4.0
10°-20°	328.5	11.4
20°-30°	485.3	16.9
30°-40°	551.8	19.2
40°-50°	515.3	17.9
50°-60°	400.7	13.9
60°-70°	265.9	9.3
70°-80°	153.9	5.4
80°-90°	55.9	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°	929.4	32.4
0°-40°	1481.2	51.6
0°-60°	2397.3	83.4
0°-90°	2873.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2873.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1221	1221	1221	1221	1221	
5°	1222	1216	1215	1217	1220	116
15°	1171	1165	1164	1164	1172	330
25°	1059	1054	1056	1054	1058	487
35°	892	887	885	879	882	557
45°	682	676	669	661	661	525
55°	463	457	446	435	433	416
65°	279	271	264	259	259	279
75°	146	143	140	146	150	157
85°	50	49	50	57	58	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1222.8	1219.2	1221.0	1219.7	1223.7
5°	1221.9	1215.6	1215.2	1217.4	1220.1
7.5°	1213.4	1206.7	1208.0	1208.0	1212.5
10°	1203.1	1196.3	1197.2	1197.7	1202.6
12.5°	1189.1	1182.4	1182.9	1182.4	1187.3
15°	1170.7	1164.9	1164.4	1164.0	1171.6
17.5°	1148.3	1140.2	1142.9	1143.3	1147.4
20°	1122.2	1115.9	1117.7	1117.3	1125.8
22.5°	1091.2	1086.8	1088.1	1087.2	1095.3
25°	1058.9	1054.4	1056.2	1054.0	1058.5
27.5°	1022.5	1019.4	1017.6	1016.2	1019.4
30°	979.9	978.1	978.1	972.2	975.8
32.5°	939.5	933.6	933.6	931.4	929.1
35°	891.9	887.4	885.1	878.8	881.5
37.5°	844.3	833.9	833.0	828.1	828.1
40°	789.5	783.6	780.5	775.1	774.2
42.5°	737.4	731.5	726.1	717.2	715.4
45°	681.7	676.3	669.1	660.6	661.0
47.5°	626.5	618.8	612.1	601.8	600.4
50°	569.4	564.0	554.2	545.2	544.7
52.5°	516.0	507.5	498.5	487.7	487.7
55°	463.4	456.7	446.4	434.7	433.4
57.5°	413.1	406.9	395.2	386.7	384.4
60°	366.9	357.9	347.1	339.9	338.2
62.5°	320.6	312.6	304.5	297.3	296.8
65°	279.3	270.8	263.6	258.7	259.1
67.5°	242.0	234.9	226.8	225.4	225.9
70°	207.0	199.4	193.5	196.7	198.9
72.5°	173.8	169.7	165.7	170.2	173.3
75°	146.4	142.8	139.7	145.9	150.0
77.5°	121.2	118.6	118.1	123.5	127.1
80°	97.4	94.3	95.7	101.9	105.1
82.5°	74.1	71.9	72.3	79.9	82.2
85°	49.8	48.9	50.3	57.0	57.5
87.5°	26.5	26.5	27.4	31.4	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)