

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: P294217

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-25)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-30-FGW080-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2653.0 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.36
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

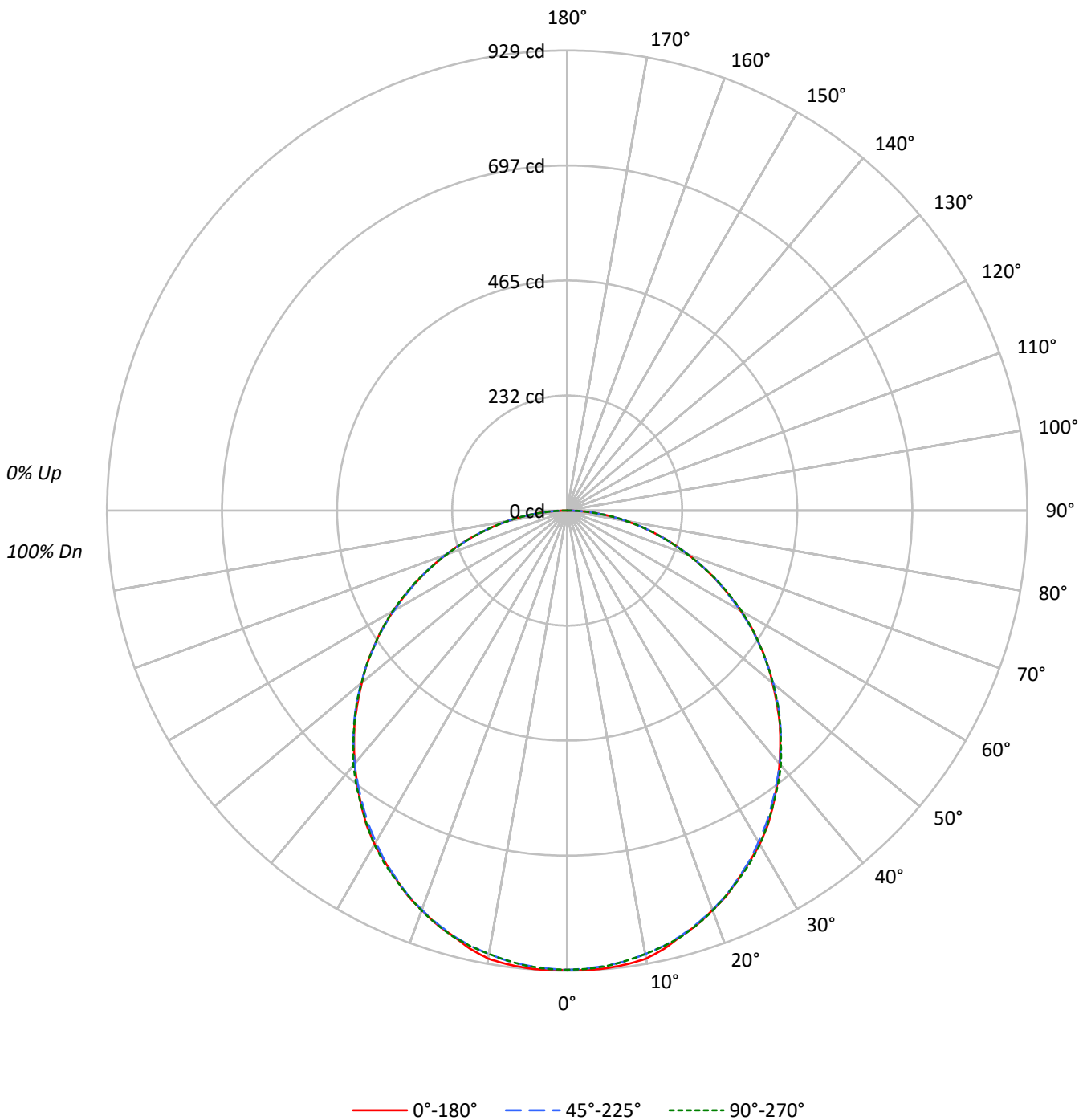
Input Watts (W): 20.274
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	43
6	70	56	47	41	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	65	51	42	36	63	50	42	36	48	41	35	47	40	35	46	40	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1248	1248	1248
5°	1252	1246	1246
10°	1255	1242	1242
15°	1238	1238	1240
20°	1229	1228	1231
25°	1216	1215	1219
30°	1208	1200	1209
35°	1191	1185	1191
40°	1172	1173	1179
45°	1155	1158	1156
50°	1133	1137	1134
55°	1115	1113	1115
60°	1089	1086	1096
65°	1056	1060	1064
70°	1022	1026	1019
75°	986	986	986
80°	931	931	941
85°	860	869	840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	3.3
10°-20°	250.6	9.4
20°-30°	377.7	14.2
30°-40°	452.4	17.1
40°-50°	468.3	17.7
50°-60°	424.6	16.0
60°-70°	329.2	12.4
70°-80°	200.2	7.5
80°-90°	62.3	2.3
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°	716.0	27.0
0°-40°	1168.4	44.0
0°-60°	2061.3	77.7
0°-90°	2653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	927	927	927	927	927	
5°	927	922	922	921	923	88
15°	889	890	888	885	890	251
25°	819	819	818	821	821	378
35°	725	720	721	724	725	454
45°	607	608	609	606	608	468
55°	476	473	474	476	476	425
65°	332	334	333	332	334	329
75°	190	189	190	189	190	200
85°	56	55	56	56	54	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	927.3	927.3	927.3	927.3	927.3
2.5°	929.1	925.4	925.4	924.1	926.0
5°	927.3	921.6	922.2	921.0	922.9
7.5°	924.1	916.6	917.2	916.0	916.6
10°	918.5	909.7	909.1	908.5	909.1
12.5°	906.0	901.0	900.3	899.1	901.0
15°	889.1	889.7	888.5	885.3	890.3
17.5°	875.9	875.3	874.1	870.9	875.9
20°	858.4	859.1	857.8	856.6	859.7
22.5°	841.5	839.7	840.3	839.7	840.3
25°	819.0	819.0	818.4	820.9	820.9
27.5°	798.4	795.9	797.1	799.6	800.9
30°	777.7	771.5	772.7	775.2	778.3
32.5°	753.3	747.1	748.3	750.8	752.1
35°	725.2	720.2	721.4	724.5	725.2
37.5°	696.4	693.3	694.5	697.0	698.9
40°	667.0	665.7	667.6	667.0	671.4
42.5°	636.9	636.3	638.2	638.2	638.8
45°	606.9	608.2	608.8	606.3	607.5
47.5°	573.7	574.4	576.9	575.6	576.2
50°	541.2	540.6	543.1	543.7	541.8
52.5°	509.9	506.8	509.3	510.6	509.3
55°	475.5	473.0	474.3	476.1	475.5
57.5°	441.7	439.2	439.9	443.0	441.7
60°	404.8	404.2	403.6	406.1	407.3
62.5°	368.5	367.9	366.6	369.1	370.4
65°	331.6	333.5	332.9	331.6	334.1
67.5°	296.6	298.4	296.6	295.3	295.3
70°	259.7	261.5	260.9	259.7	259.0
72.5°	225.2	225.2	224.0	223.4	224.0
75°	189.6	189.0	189.6	189.0	189.6
77.5°	154.5	155.2	155.2	155.2	154.5
80°	120.1	120.1	120.1	120.8	121.4
82.5°	88.2	86.3	88.2	87.0	87.6
85°	55.7	55.1	56.3	55.7	54.4
87.5°	25.0	25.7	25.7	26.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)