

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: P294215

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294215
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2509.0 lumens
Efficiency: N/A
Efficacy: 126.7 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

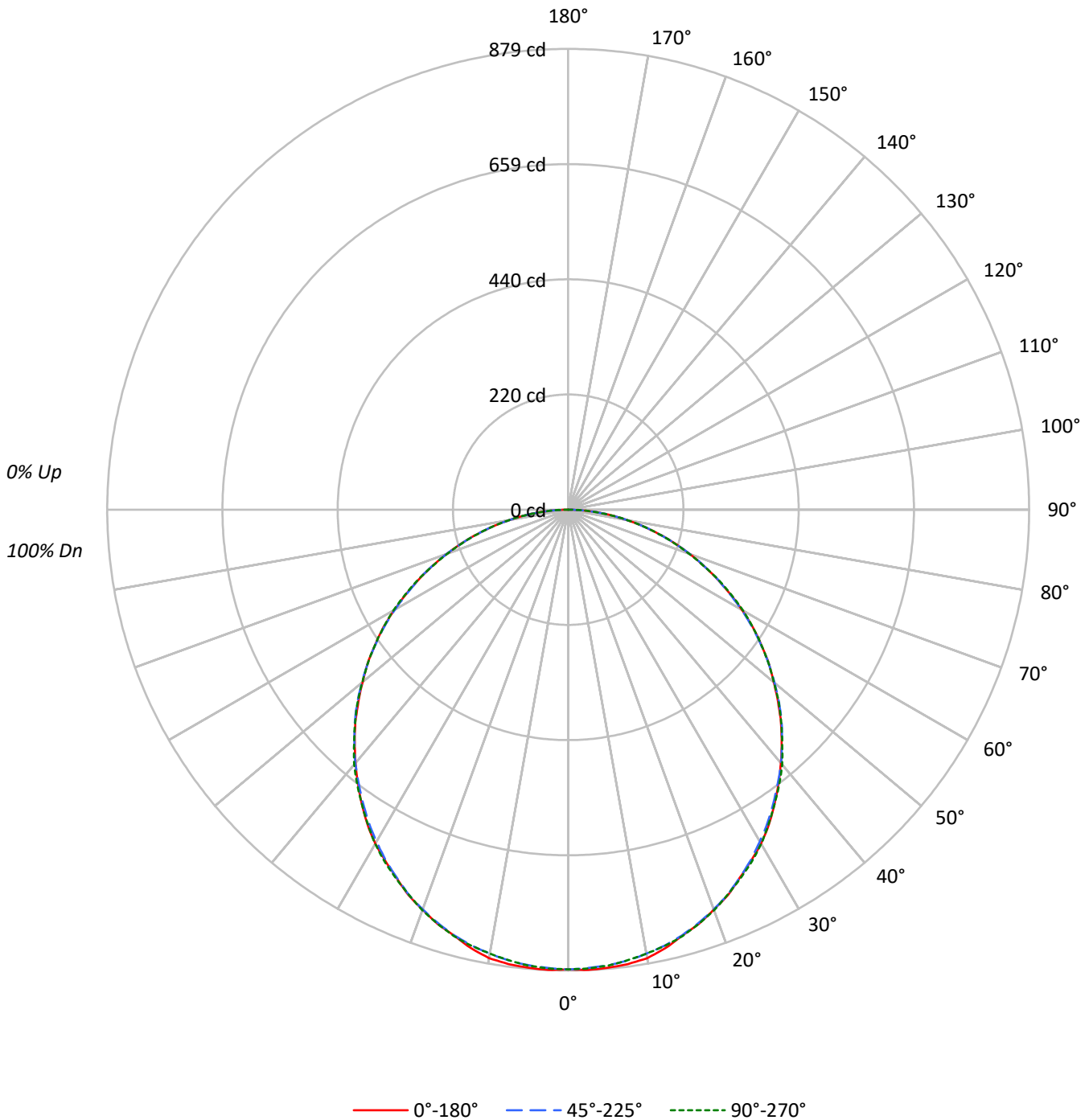
Input Watts (W): 19.809
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1180	1180	1180
5°	1184	1178	1179
10°	1187	1175	1175
15°	1171	1170	1173
20°	1162	1162	1164
25°	1150	1149	1152
30°	1143	1135	1144
35°	1126	1121	1126
40°	1108	1109	1115
45°	1092	1095	1093
50°	1071	1075	1073
55°	1055	1052	1055
60°	1030	1027	1037
65°	998	1002	1006
70°	966	971	964
75°	932	932	932
80°	880	880	890
85°	814	823	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.9	3.3
10°-20°	237.0	9.4
20°-30°	357.2	14.2
30°-40°	427.8	17.1
40°-50°	442.9	17.7
50°-60°	401.6	16.0
60°-70°	311.3	12.4
70°-80°	189.3	7.5
80°-90°	58.9	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°	677.2	27.0
0°-40°	1105.0	44.0
0°-60°	1949.5	77.7
0°-90°	2509.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2509.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	877	872	872	871	873	83
15°	841	841	840	837	842	238
25°	775	775	774	776	776	358
35°	686	681	682	685	686	429
45°	574	575	576	573	575	442
55°	450	447	448	450	450	402
65°	314	315	315	314	316	311
75°	179	179	179	179	179	189
85°	53	52	53	53	52	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	876.9	876.9	876.9	876.9	876.9
2.5°	878.7	875.1	875.1	874.0	875.7
5°	876.9	871.6	872.2	871.0	872.8
7.5°	874.0	866.9	867.5	866.3	866.9
10°	868.6	860.4	859.8	859.2	859.8
12.5°	856.8	852.1	851.5	850.3	852.1
15°	840.8	841.4	840.2	837.3	842.0
17.5°	828.4	827.8	826.6	823.7	828.4
20°	811.8	812.4	811.2	810.1	813.0
22.5°	795.9	794.1	794.7	794.1	794.7
25°	774.6	774.6	774.0	776.3	776.3
27.5°	755.0	752.7	753.8	756.2	757.4
30°	735.5	729.6	730.8	733.1	736.1
32.5°	712.4	706.5	707.7	710.1	711.2
35°	685.8	681.1	682.2	685.2	685.8
37.5°	658.6	655.6	656.8	659.2	660.9
40°	630.8	629.6	631.4	630.8	634.9
42.5°	602.4	601.8	603.6	603.6	604.1
45°	574.0	575.1	575.7	573.4	574.6
47.5°	542.6	543.2	545.6	544.4	545.0
50°	511.8	511.2	513.6	514.2	512.4
52.5°	482.2	479.3	481.7	482.8	481.7
55°	449.7	447.3	448.5	450.3	449.7
57.5°	417.8	415.4	416.0	418.9	417.8
60°	382.8	382.2	381.7	384.0	385.2
62.5°	348.5	347.9	346.7	349.1	350.3
65°	313.6	315.4	314.8	313.6	316.0
67.5°	280.5	282.2	280.5	279.3	279.3
70°	245.6	247.3	246.7	245.6	245.0
72.5°	213.0	213.0	211.8	211.2	211.8
75°	179.3	178.7	179.3	178.7	179.3
77.5°	146.2	146.7	146.7	146.7	146.2
80°	113.6	113.6	113.6	114.2	114.8
82.5°	83.4	81.7	83.4	82.2	82.8
85°	52.7	52.1	53.3	52.7	51.5
87.5°	23.7	24.3	24.3	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)