

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: P294169

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294169
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-L83050-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: 2511.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

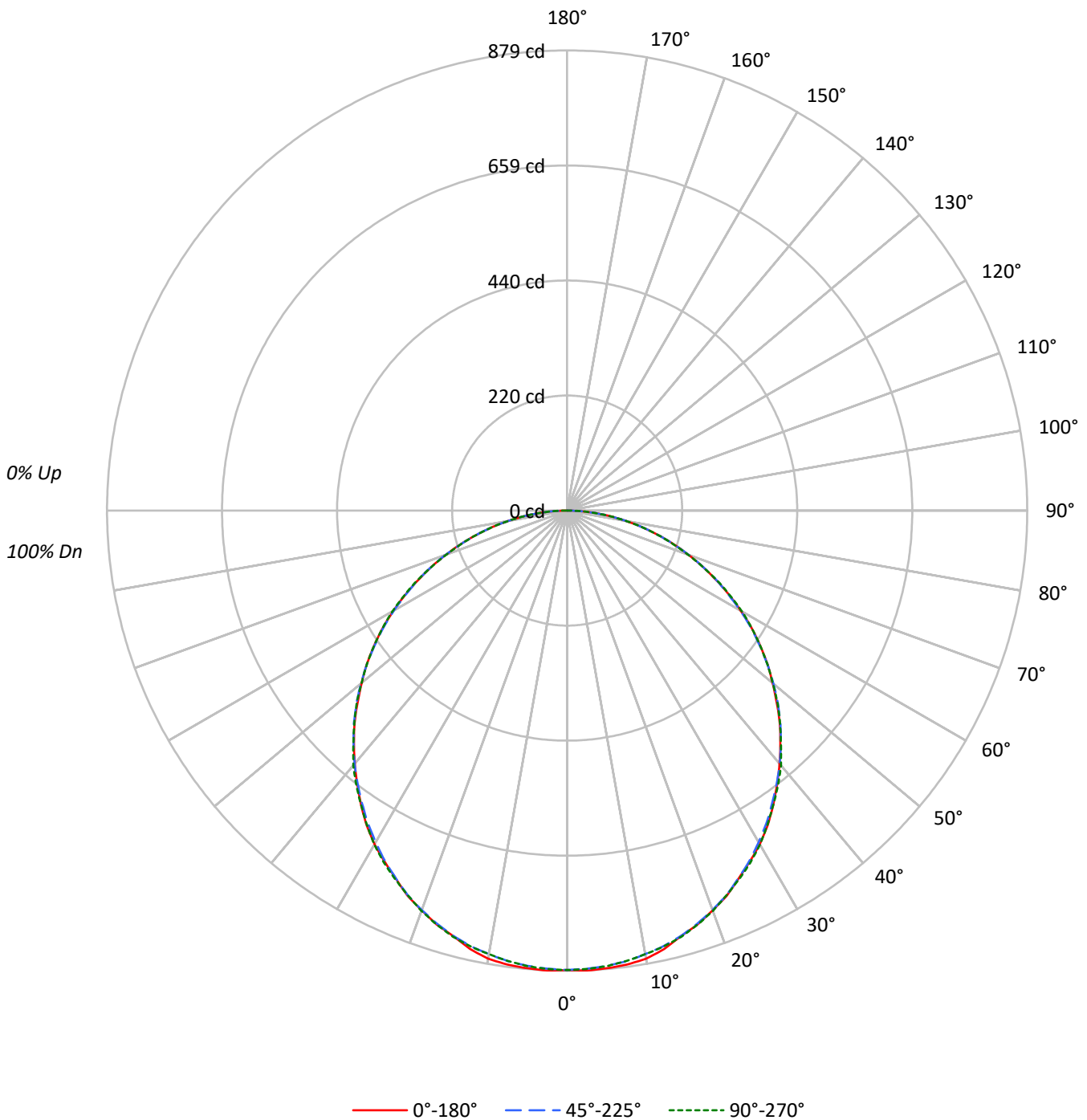
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1181	1181	1181
5°	1185	1179	1180
10°	1188	1176	1176
15°	1172	1171	1174
20°	1163	1163	1165
25°	1151	1150	1154
30°	1144	1136	1145
35°	1127	1122	1127
40°	1109	1110	1116
45°	1093	1096	1094
50°	1072	1076	1073
55°	1056	1053	1056
60°	1031	1028	1037
65°	999	1003	1007
70°	967	971	965
75°	933	933	933
80°	881	881	890
85°	814	823	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.3
10°-20°	237.2	9.4
20°-30°	357.5	14.2
30°-40°	428.2	17.1
40°-50°	443.2	17.7
50°-60°	401.9	16.0
60°-70°	311.6	12.4
70°-80°	189.5	7.5
80°-90°	59.0	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°	677.7	27.0
0°-40°	1105.9	44.0
0°-60°	1951.0	77.7
0°-90°	2511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	878	878	878	878	878	
5°	878	872	873	872	874	84
15°	842	842	841	838	843	238
25°	775	775	775	777	777	358
35°	686	682	683	686	686	429
45°	574	576	576	574	575	442
55°	450	448	449	451	450	402
65°	314	316	315	314	316	311
75°	179	179	179	179	179	190
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°	877.6	877.6	877.6	877.6	877.6
2.5°	879.4	875.8	875.8	874.7	876.4
5°	877.6	872.3	872.9	871.7	873.5
7.5°	874.7	867.6	868.1	867.0	867.6
10°	869.3	861.0	860.4	859.9	860.4
12.5°	857.5	852.8	852.2	851.0	852.8
15°	841.5	842.1	840.9	837.9	842.7
17.5°	829.1	828.5	827.3	824.3	829.1
20°	812.5	813.1	811.9	810.7	813.7
22.5°	796.5	794.7	795.3	794.7	795.3
25°	775.2	775.2	774.6	777.0	777.0
27.5°	755.6	753.3	754.4	756.8	758.0
30°	736.1	730.2	731.4	733.7	736.7
32.5°	713.0	707.1	708.3	710.6	711.8
35°	686.3	681.6	682.8	685.8	686.3
37.5°	659.1	656.1	657.3	659.7	661.5
40°	631.3	630.1	631.9	631.3	635.4
42.5°	602.8	602.3	604.0	604.0	604.6
45°	574.4	575.6	576.2	573.8	575.0
47.5°	543.0	543.6	546.0	544.8	545.4
50°	512.2	511.7	514.0	514.6	512.8
52.5°	482.6	479.7	482.0	483.2	482.0
55°	450.1	447.7	448.9	450.7	450.1
57.5°	418.1	415.7	416.3	419.3	418.1
60°	383.1	382.6	382.0	384.3	385.5
62.5°	348.8	348.2	347.0	349.4	350.6
65°	313.9	315.6	315.0	313.9	316.2
67.5°	280.7	282.5	280.7	279.5	279.5
70°	245.8	247.5	246.9	245.8	245.2
72.5°	213.2	213.2	212.0	211.4	212.0
75°	179.4	178.8	179.4	178.8	179.4
77.5°	146.3	146.9	146.9	146.9	146.3
80°	113.7	113.7	113.7	114.3	114.9
82.5°	83.5	81.7	83.5	82.3	82.9
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)