

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: P294347

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294347
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-L92765-W2A1-U-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2505.0 lumens
Efficiency: N/A
Efficacy: 121.3 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

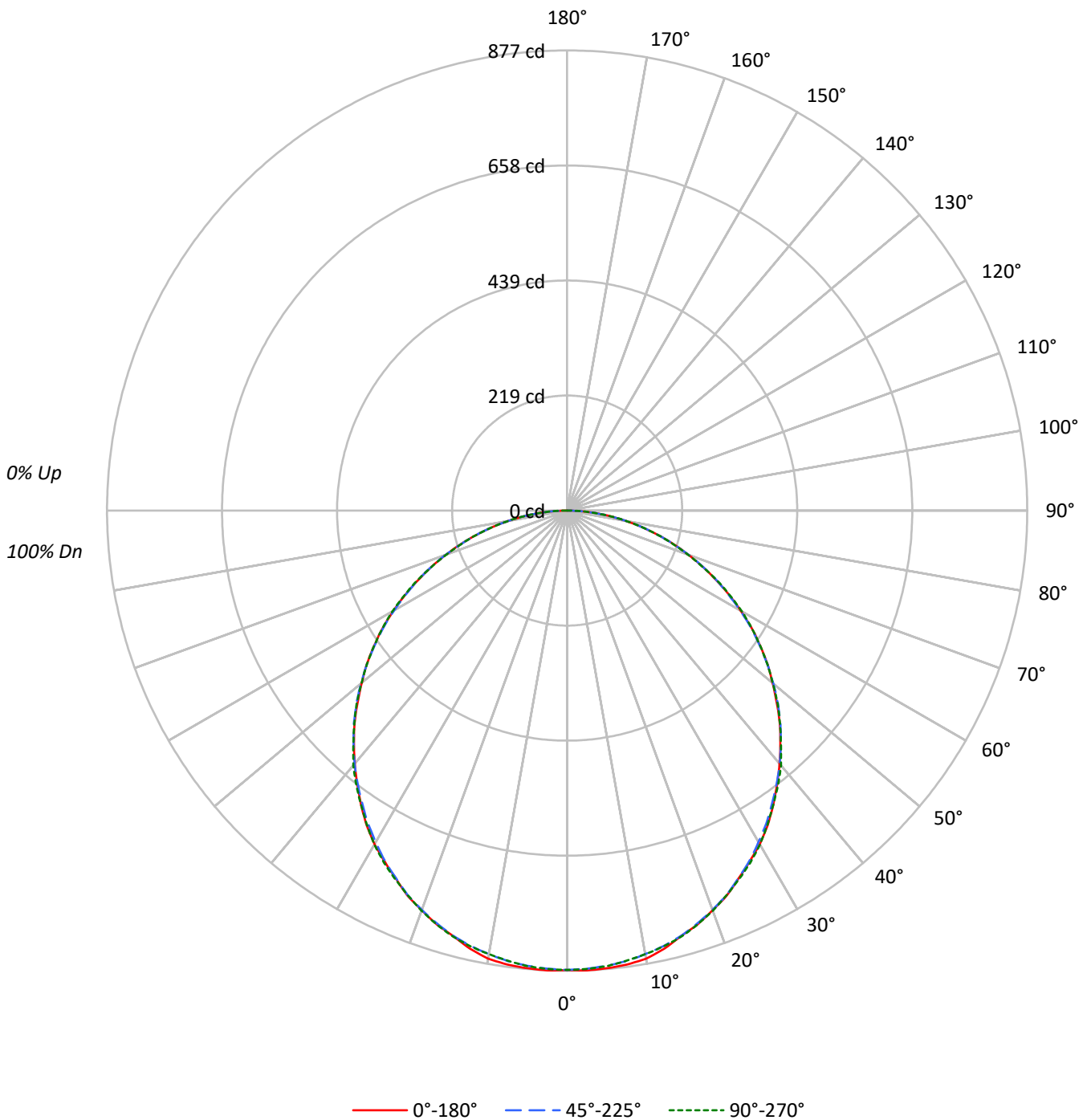
Input Watts (W): 20.646
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1178	1178	1178
5°	1182	1176	1177
10°	1185	1173	1173
15°	1169	1169	1171
20°	1161	1160	1162
25°	1148	1147	1151
30°	1141	1134	1142
35°	1125	1119	1125
40°	1106	1107	1113
45°	1091	1094	1091
50°	1070	1073	1071
55°	1053	1050	1053
60°	1028	1025	1035
65°	997	1001	1004
70°	965	969	962
75°	931	931	931
80°	879	879	888
85°	812	821	794



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.8	3.3
10°-20°	236.7	9.4
20°-30°	356.6	14.2
30°-40°	427.2	17.1
40°-50°	442.2	17.7
50°-60°	400.9	16.0
60°-70°	310.8	12.4
70°-80°	189.0	7.5
80°-90°	58.8	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°	676.1	27.0
0°-40°	1103.3	44.0
0°-60°	1946.3	77.7
0°-90°	2505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	876	876	876	876	876	
5°	876	870	871	870	871	83
15°	840	840	839	836	841	237
25°	773	773	773	775	775	357
35°	685	680	681	684	685	428
45°	573	574	575	572	574	441
55°	449	447	448	450	449	401
65°	313	315	314	313	316	311
75°	179	178	179	178	179	189
85°	53	52	53	53	51	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	875.5	875.5	875.5	875.5	875.5
2.5°	877.3	873.8	873.8	872.6	874.3
5°	875.5	870.2	870.8	869.6	871.4
7.5°	872.6	865.5	866.1	864.9	865.5
10°	867.3	859.0	858.4	857.8	858.4
12.5°	855.4	850.7	850.1	848.9	850.7
15°	839.5	840.1	838.9	835.9	840.7
17.5°	827.1	826.5	825.3	822.4	827.1
20°	810.5	811.1	810.0	808.8	811.7
22.5°	794.6	792.8	793.4	792.8	793.4
25°	773.3	773.3	772.7	775.1	775.1
27.5°	753.8	751.5	752.6	755.0	756.2
30°	734.3	728.4	729.6	732.0	734.9
32.5°	711.3	705.4	706.6	708.9	710.1
35°	684.7	680.0	681.2	684.1	684.7
37.5°	657.5	654.6	655.8	658.1	659.9
40°	629.8	628.6	630.4	629.8	633.9
42.5°	601.4	600.8	602.6	602.6	603.2
45°	573.1	574.2	574.8	572.5	573.6
47.5°	541.7	542.3	544.7	543.5	544.1
50°	511.0	510.4	512.8	513.4	511.6
52.5°	481.5	478.5	480.9	482.1	480.9
55°	449.0	446.6	447.8	449.6	449.0
57.5°	417.1	414.7	415.3	418.3	417.1
60°	382.2	381.6	381.0	383.4	384.6
62.5°	348.0	347.4	346.2	348.6	349.7
65°	313.1	314.9	314.3	313.1	315.5
67.5°	280.0	281.8	280.0	278.8	278.8
70°	245.2	246.9	246.4	245.2	244.6
72.5°	212.7	212.7	211.5	210.9	211.5
75°	179.0	178.4	179.0	178.4	179.0
77.5°	145.9	146.5	146.5	146.5	145.9
80°	113.4	113.4	113.4	114.0	114.6
82.5°	83.3	81.5	83.3	82.1	82.7
85°	52.6	52.0	53.2	52.6	51.4
87.5°	23.6	24.2	24.2	24.8	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)