

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: P294220

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294220
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2764.0 lumens
Efficiency: N/A
Efficacy: 134.5 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

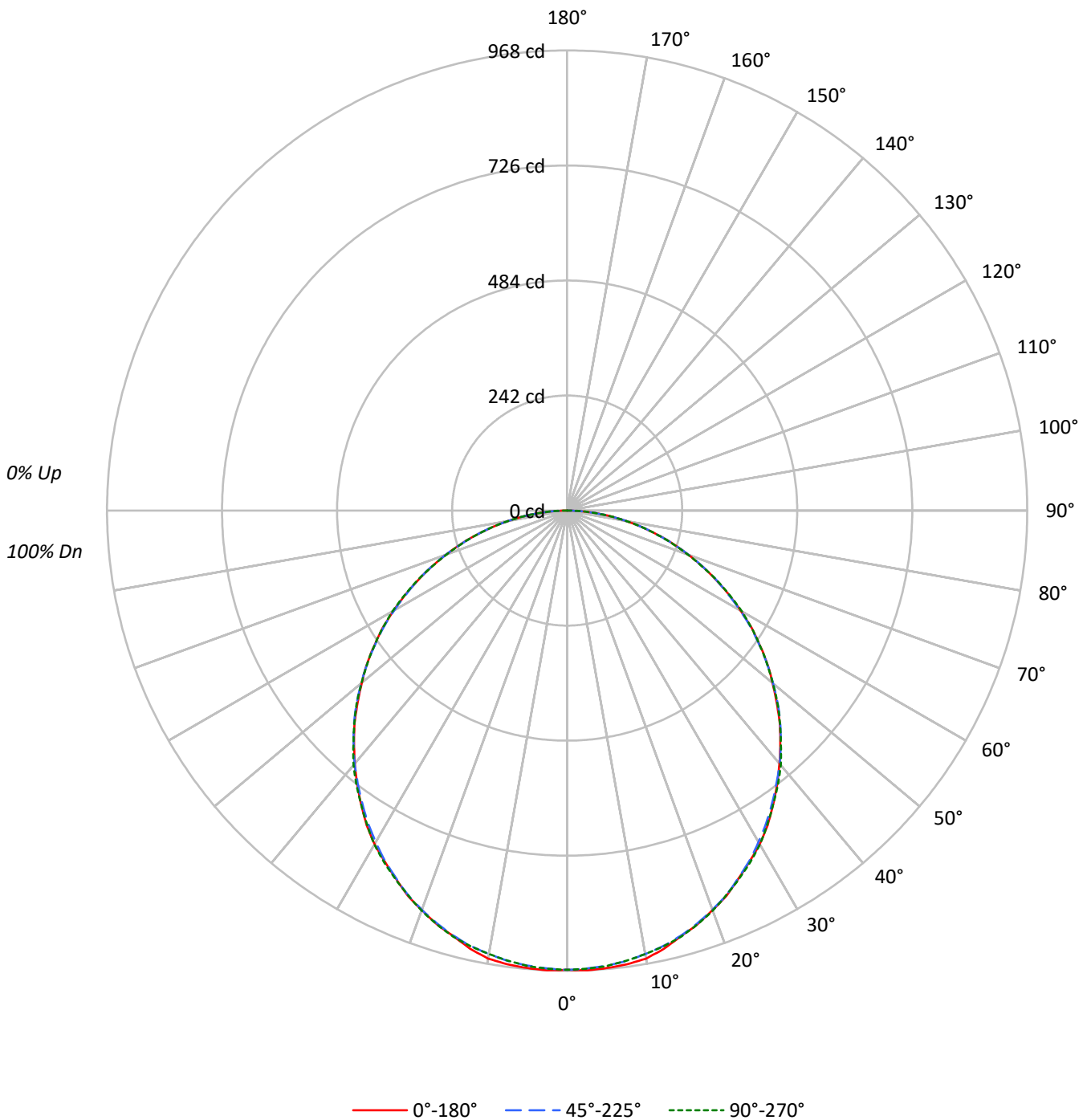
Input Watts (W): 20.553
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1300	1300	1300
5°	1305	1298	1299
10°	1307	1294	1294
15°	1290	1289	1292
20°	1280	1280	1282
25°	1267	1266	1270
30°	1259	1251	1260
35°	1241	1235	1241
40°	1221	1222	1228
45°	1203	1207	1204
50°	1180	1184	1182
55°	1162	1159	1162
60°	1135	1131	1142
65°	1100	1104	1108
70°	1064	1069	1062
75°	1027	1027	1027
80°	970	970	980
85°	895	906	875



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.3	3.3
10°-20°	261.1	9.4
20°-30°	393.5	14.2
30°-40°	471.3	17.1
40°-50°	487.9	17.7
50°-60°	442.4	16.0
60°-70°	343.0	12.4
70°-80°	208.6	7.5
80°-90°	64.9	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°	746.0	27.0
0°-40°	1217.3	44.0
0°-60°	2147.6	77.7
0°-90°	2764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	966	960	961	960	962	92
15°	926	927	926	922	928	262
25°	853	853	853	855	855	394
35°	756	750	752	755	756	473
45°	632	634	634	632	633	487
55°	495	493	494	496	495	443
65°	346	347	347	346	348	343
75°	198	197	198	197	198	209
85°	58	57	59	58	57	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	966.0	966.0	966.0	966.0	966.0
2.5°	968.0	964.1	964.1	962.8	964.7
5°	966.0	960.2	960.8	959.5	961.5
7.5°	962.8	955.0	955.6	954.3	955.0
10°	956.9	947.8	947.1	946.5	947.1
12.5°	943.9	938.7	938.0	936.7	938.7
15°	926.3	926.9	925.6	922.4	927.6
17.5°	912.6	911.9	910.6	907.4	912.6
20°	894.3	895.0	893.7	892.4	895.6
22.5°	876.7	874.8	875.4	874.8	875.4
25°	853.3	853.3	852.6	855.2	855.2
27.5°	831.8	829.2	830.5	833.1	834.4
30°	810.3	803.7	805.0	807.6	810.9
32.5°	784.8	778.3	779.6	782.2	783.5
35°	755.5	750.3	751.6	754.8	755.5
37.5°	725.5	722.3	723.6	726.2	728.1
40°	694.9	693.6	695.5	694.9	699.4
42.5°	663.6	662.9	664.9	664.9	665.5
45°	632.3	633.6	634.3	631.6	633.0
47.5°	597.8	598.4	601.0	599.7	600.4
50°	563.9	563.2	565.8	566.5	564.5
52.5°	531.3	528.0	530.6	531.9	530.6
55°	495.4	492.8	494.1	496.1	495.4
57.5°	460.2	457.6	458.3	461.5	460.2
60°	421.8	421.1	420.4	423.1	424.4
62.5°	383.9	383.3	382.0	384.6	385.9
65°	345.5	347.4	346.8	345.5	348.1
67.5°	309.0	310.9	309.0	307.7	307.7
70°	270.5	272.5	271.8	270.5	269.9
72.5°	234.7	234.7	233.4	232.7	233.4
75°	197.5	196.9	197.5	196.9	197.5
77.5°	161.0	161.7	161.7	161.7	161.0
80°	125.2	125.2	125.2	125.8	126.5
82.5°	91.9	90.0	91.9	90.6	91.3
85°	58.0	57.4	58.7	58.0	56.7
87.5°	26.1	26.7	26.7	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)