

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: P294214

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294214
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-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2439.0 lumens
Efficiency: N/A
Efficacy: 122.0 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

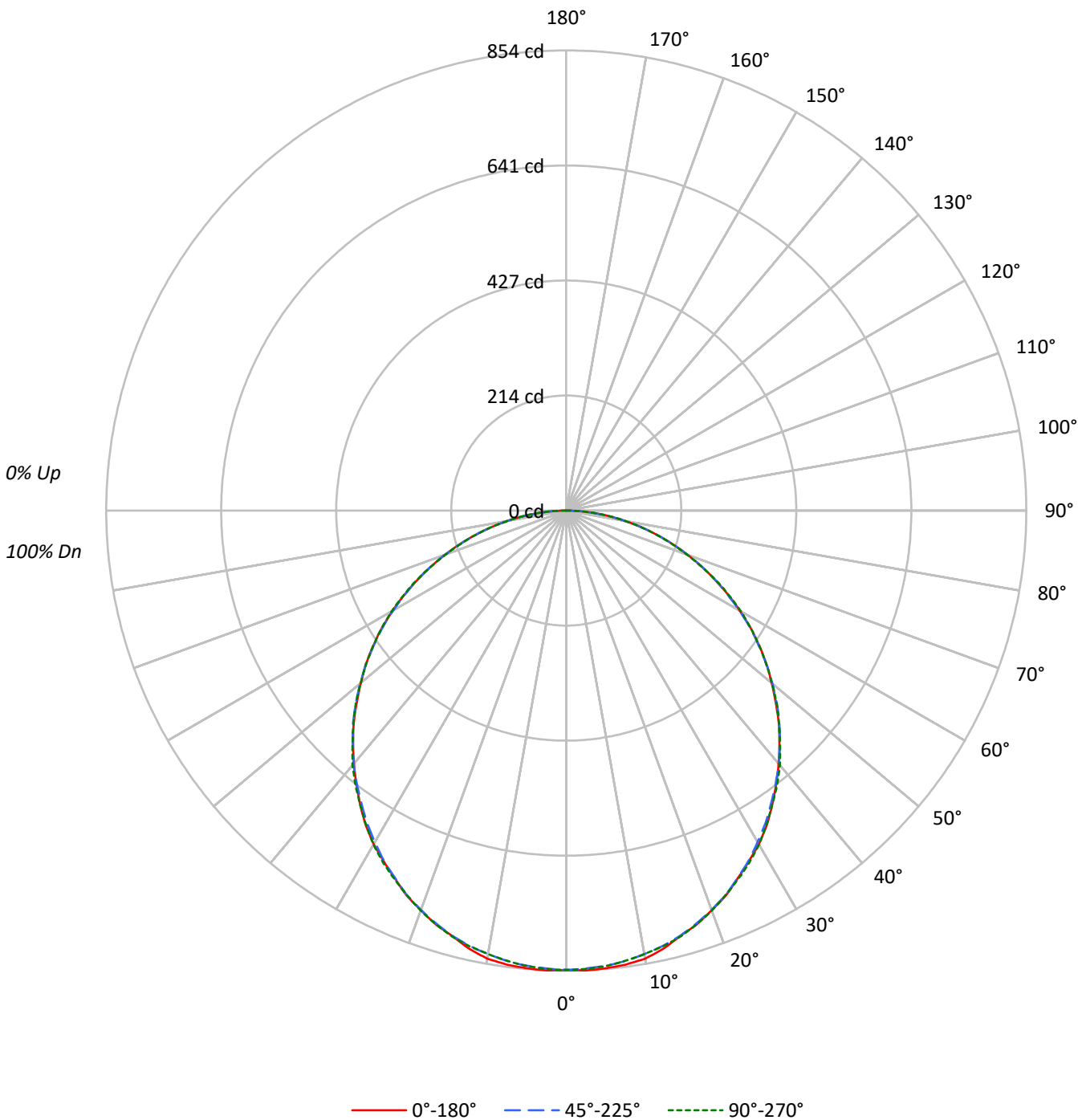
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT





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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	99	95	106	101	97	94		97	94	91		93	90	88		89	87	85
2	98	90	83	77	96	88	82	76		84	79	74		81	77	73		78	74	71
3	90	79	71	64	87	77	70	63		74	68	62		71	66	61		69	64	60
4	82	70	61	54	80	68	60	54		66	59	53		64	57	52		61	56	51
5	75	62	53	46	73	61	53	46		59	51	46		57	50	45		55	49	45
6	70	56	47	41	68	55	47	40		53	46	40		52	45	40		50	44	39
7	65	51	42	36	63	50	42	36		48	41	35		47	40	35		46	40	35
8	60	46	38	32	58	46	37	32		44	37	32		43	36	31		42	36	31
9	56	43	34	29	55	42	34	29		41	34	28		40	33	28		39	33	28
10	53	39	31	26	51	39	31	26		38	31	26		37	30	26		36	30	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1147	1147	1147
5°	1151	1145	1146
10°	1154	1142	1142
15°	1139	1138	1140
20°	1130	1129	1132
25°	1118	1117	1120
30°	1111	1104	1112
35°	1095	1089	1095
40°	1077	1078	1084
45°	1062	1065	1063
50°	1042	1045	1043
55°	1026	1023	1026
60°	1002	998	1008
65°	971	974	978
70°	939	944	937
75°	906	906	906
80°	855	855	865
85°	790	800	772



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.6	3.3
10°-20°	230.4	9.4
20°-30°	347.2	14.2
30°-40°	415.9	17.1
40°-50°	430.5	17.7
50°-60°	390.4	16.0
60°-70°	302.6	12.4
70°-80°	184.1	7.5
80°-90°	57.3	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°	658.3	27.0
0°-40°	1074.2	44.0
0°-60°	1895.1	77.7
0°-90°	2439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2439.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	852	852	852	852	852	
5°	852	847	848	847	848	81
15°	817	818	817	814	818	231
25°	753	753	752	755	755	348
35°	667	662	663	666	667	417
45°	558	559	560	557	558	430
55°	437	435	436	438	437	391
65°	305	307	306	305	307	302
75°	174	174	174	174	174	184
85°	51	51	52	51	50	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	852.5	852.5	852.5	852.5	852.5
2.5°	854.2	850.7	850.7	849.6	851.3
5°	852.5	847.3	847.9	846.7	848.4
7.5°	849.6	842.7	843.3	842.1	842.7
10°	844.4	836.4	835.8	835.2	835.8
12.5°	832.9	828.3	827.7	826.6	828.3
15°	817.4	817.9	816.8	813.9	818.5
17.5°	805.3	804.7	803.6	800.7	805.3
20°	789.2	789.8	788.6	787.5	790.3
22.5°	773.7	771.9	772.5	771.9	772.5
25°	752.9	752.9	752.4	754.7	754.7
27.5°	734.0	731.7	732.8	735.1	736.3
30°	715.0	709.2	710.4	712.7	715.6
32.5°	692.6	686.8	687.9	690.2	691.4
35°	666.7	662.1	663.2	666.1	666.7
37.5°	640.2	637.3	638.5	640.8	642.5
40°	613.2	612.0	613.7	613.2	617.2
42.5°	585.6	585.0	586.7	586.7	587.3
45°	558.0	559.1	559.7	557.4	558.5
47.5°	527.5	528.0	530.3	529.2	529.8
50°	497.6	497.0	499.3	499.9	498.1
52.5°	468.8	465.9	468.2	469.4	468.2
55°	437.2	434.9	436.0	437.7	437.2
57.5°	406.1	403.8	404.4	407.2	406.1
60°	372.2	371.6	371.0	373.3	374.5
62.5°	338.8	338.2	337.1	339.4	340.5
65°	304.9	306.6	306.0	304.9	307.2
67.5°	272.6	274.4	272.6	271.5	271.5
70°	238.7	240.4	239.9	238.7	238.1
72.5°	207.1	207.1	205.9	205.3	205.9
75°	174.3	173.7	174.3	173.7	174.3
77.5°	142.1	142.7	142.7	142.7	142.1
80°	110.4	110.4	110.4	111.0	111.6
82.5°	81.1	79.4	81.1	80.0	80.5
85°	51.2	50.6	51.8	51.2	50.0
87.5°	23.0	23.6	23.6	24.2	24.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)