

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: P294170

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294170
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2658.0 lumens
Efficiency: N/A
Efficacy: 132.9 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

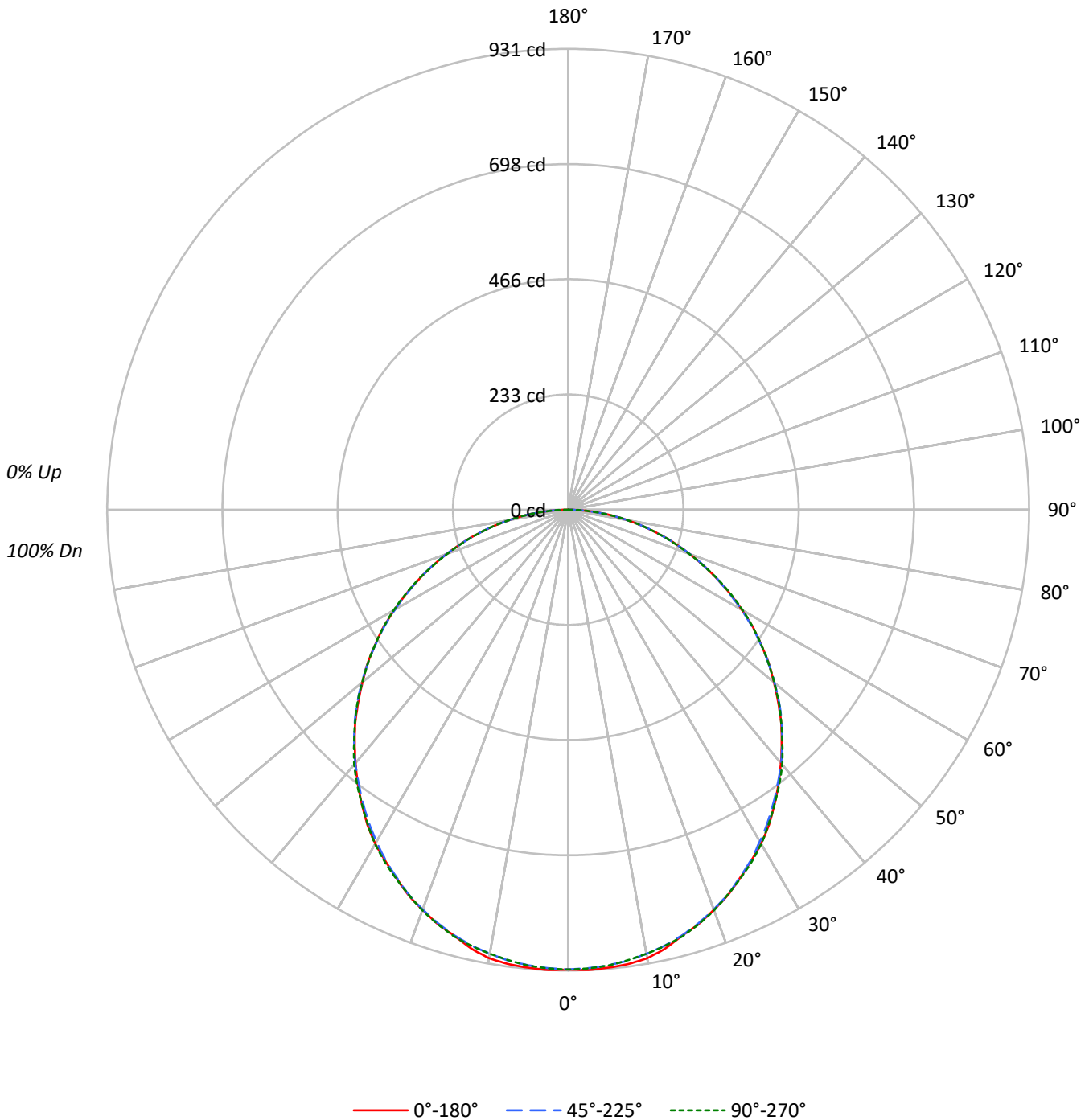
Input Watts (W): 19.995
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1250	1250	1250
5°	1255	1248	1249
10°	1257	1244	1244
15°	1241	1240	1243
20°	1231	1231	1233
25°	1218	1217	1221
30°	1211	1203	1212
35°	1193	1187	1193
40°	1174	1175	1181
45°	1157	1161	1158
50°	1135	1139	1136
55°	1118	1115	1118
60°	1091	1088	1098
65°	1058	1062	1066
70°	1023	1028	1021
75°	987	987	987
80°	933	933	942
85°	861	871	841



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.3
10°-20°	251.1	9.4
20°-30°	378.4	14.2
30°-40°	453.3	17.1
40°-50°	469.2	17.7
50°-60°	425.4	16.0
60°-70°	329.8	12.4
70°-80°	200.6	7.5
80°-90°	62.4	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°	717.4	27.0
0°-40°	1170.6	44.0
0°-60°	2065.2	77.7
0°-90°	2658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	929	929	929	929	929	
5°	929	923	924	923	925	88
15°	891	891	890	887	892	252
25°	821	821	820	822	822	379
35°	726	722	723	726	726	454
45°	608	609	610	607	609	468
55°	476	474	475	477	476	426
65°	332	334	334	332	335	329
75°	190	189	190	189	190	201
85°	56	55	56	56	54	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	929.0	929.0	929.0	929.0	929.0
2.5°	930.9	927.1	927.1	925.9	927.7
5°	929.0	923.4	924.0	922.7	924.6
7.5°	925.9	918.3	919.0	917.7	918.3
10°	920.2	911.4	910.8	910.2	910.8
12.5°	907.7	902.7	902.0	900.8	902.7
15°	890.8	891.4	890.1	887.0	892.0
17.5°	877.6	877.0	875.7	872.6	877.6
20°	860.0	860.7	859.4	858.2	861.3
22.5°	843.1	841.2	841.9	841.2	841.9
25°	820.6	820.6	819.9	822.4	822.4
27.5°	799.9	797.4	798.6	801.1	802.4
30°	779.2	772.9	774.2	776.7	779.8
32.5°	754.7	748.5	749.7	752.2	753.5
35°	726.5	721.5	722.8	725.9	726.5
37.5°	697.7	694.6	695.8	698.3	700.2
40°	668.2	667.0	668.9	668.2	672.6
42.5°	638.1	637.5	639.4	639.4	640.0
45°	608.1	609.3	609.9	607.4	608.7
47.5°	574.8	575.5	578.0	576.7	577.3
50°	542.2	541.6	544.1	544.7	542.9
52.5°	510.9	507.8	510.3	511.5	510.3
55°	476.4	473.9	475.2	477.0	476.4
57.5°	442.6	440.1	440.7	443.8	442.6
60°	405.6	404.9	404.3	406.8	408.1
62.5°	369.2	368.6	367.3	369.8	371.1
65°	332.2	334.1	333.5	332.2	334.7
67.5°	297.1	299.0	297.1	295.9	295.9
70°	260.1	262.0	261.4	260.1	259.5
72.5°	225.7	225.7	224.4	223.8	224.4
75°	189.9	189.3	189.9	189.3	189.9
77.5°	154.8	155.5	155.5	155.5	154.8
80°	120.4	120.4	120.4	121.0	121.6
82.5°	88.4	86.5	88.4	87.1	87.8
85°	55.8	55.2	56.4	55.8	54.5
87.5°	25.1	25.7	25.7	26.3	26.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)