

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: P294174

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294174
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-LD5-34-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: 2877.0 lumens
Efficiency: N/A
Efficacy: 125.2 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

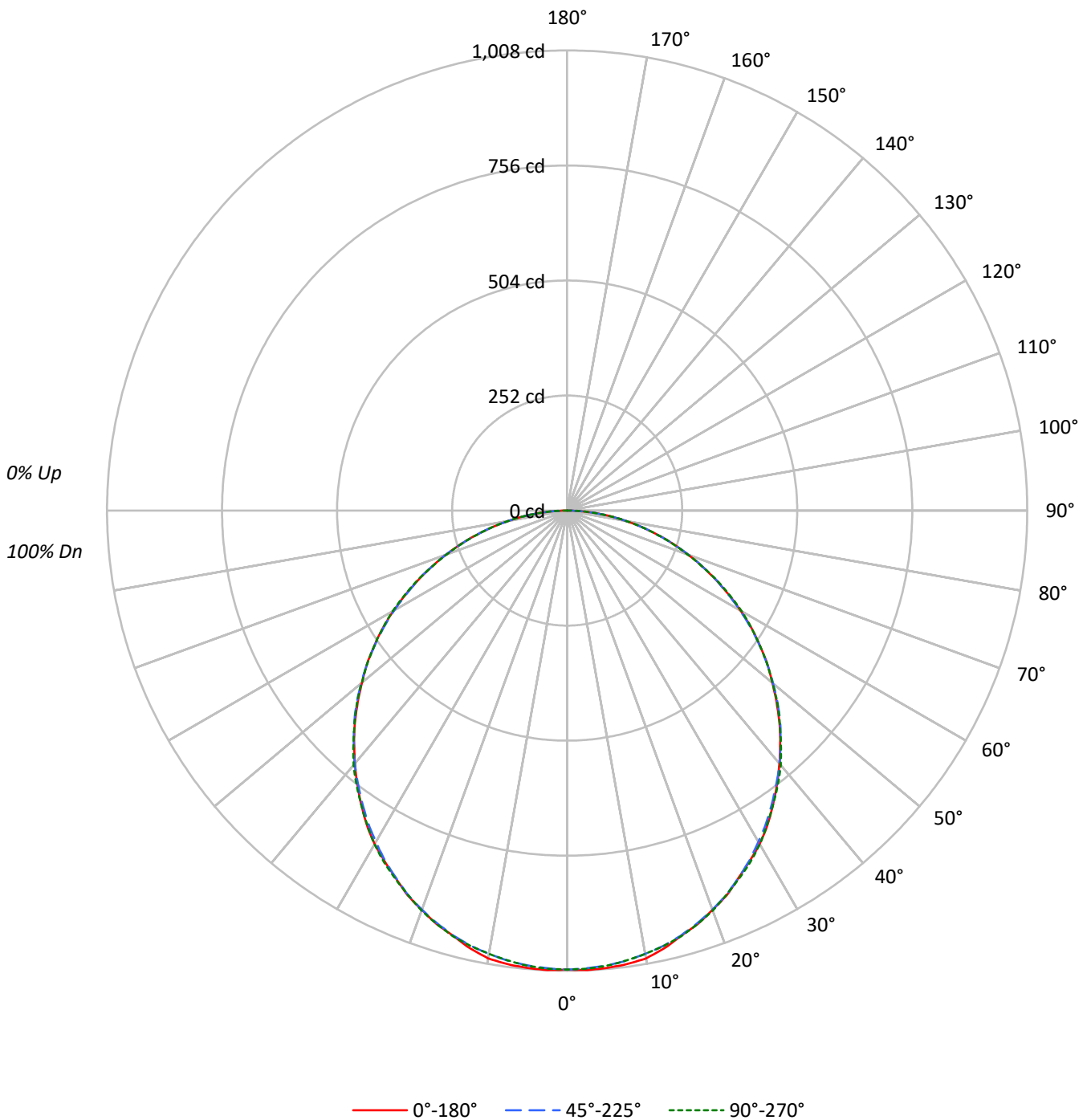
Input Watts (W): 22.971
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1353	1353	1353
5°	1358	1351	1352
10°	1361	1347	1347
15°	1343	1342	1345
20°	1333	1332	1335
25°	1319	1318	1322
30°	1310	1302	1311
35°	1292	1285	1292
40°	1270	1272	1279
45°	1252	1256	1254
50°	1229	1233	1230
55°	1210	1206	1210
60°	1181	1178	1189
65°	1145	1149	1153
70°	1108	1113	1105
75°	1069	1069	1069
80°	1010	1010	1020
85°	932	943	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.3
10°-20°	271.8	9.4
20°-30°	409.6	14.2
30°-40°	490.6	17.1
40°-50°	507.8	17.7
50°-60°	460.5	16.0
60°-70°	357.0	12.4
70°-80°	217.1	7.5
80°-90°	67.5	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°	776.5	27.0
0°-40°	1267.1	44.0
0°-60°	2235.4	77.7
0°-90°	2877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1006	999	1000	999	1001	96
15°	964	965	964	960	966	273
25°	888	888	888	890	890	410
35°	786	781	782	786	786	492
45°	658	660	660	658	659	507
55°	516	513	514	516	516	461
65°	360	362	361	360	362	357
75°	206	205	206	205	206	217
85°	60	60	61	60	59	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.5	1005.5	1005.5	1005.5	1005.5
2.5°	1007.6	1003.5	1003.5	1002.2	1004.2
5°	1005.5	999.4	1000.1	998.8	1000.8
7.5°	1002.2	994.0	994.7	993.3	994.0
10°	996.0	986.5	985.9	985.2	985.9
12.5°	982.5	977.0	976.4	975.0	977.0
15°	964.2	964.8	963.5	960.1	965.5
17.5°	949.9	949.2	947.9	944.5	949.9
20°	930.9	931.6	930.2	928.9	932.3
22.5°	912.6	910.6	911.2	910.6	911.2
25°	888.2	888.2	887.5	890.2	890.2
27.5°	865.8	863.1	864.4	867.1	868.5
30°	843.4	836.6	838.0	840.7	844.1
32.5°	816.9	810.1	811.5	814.2	815.6
35°	786.4	781.0	782.3	785.7	786.4
37.5°	755.2	751.8	753.1	755.9	757.9
40°	723.3	721.9	724.0	723.3	728.0
42.5°	690.7	690.0	692.1	692.1	692.8
45°	658.1	659.5	660.2	657.5	658.8
47.5°	622.2	622.9	625.6	624.2	624.9
50°	586.9	586.2	588.9	589.6	587.6
52.5°	553.0	549.6	552.3	553.7	552.3
55°	515.7	512.9	514.3	516.3	515.7
57.5°	479.0	476.3	477.0	480.4	479.0
60°	439.0	438.3	437.6	440.3	441.7
62.5°	399.6	399.0	397.6	400.3	401.7
65°	359.6	361.6	361.0	359.6	362.3
67.5°	321.6	323.6	321.6	320.3	320.3
70°	281.6	283.6	282.9	281.6	280.9
72.5°	244.3	244.3	242.9	242.2	242.9
75°	205.6	204.9	205.6	204.9	205.6
77.5°	167.6	168.3	168.3	168.3	167.6
80°	130.3	130.3	130.3	131.0	131.6
82.5°	95.7	93.6	95.7	94.3	95.0
85°	60.4	59.7	61.1	60.4	59.0
87.5°	27.1	27.8	27.8	28.5	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)