

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: P294218

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294218
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2700.0 lumens
Efficiency: N/A
Efficacy: 132.6 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

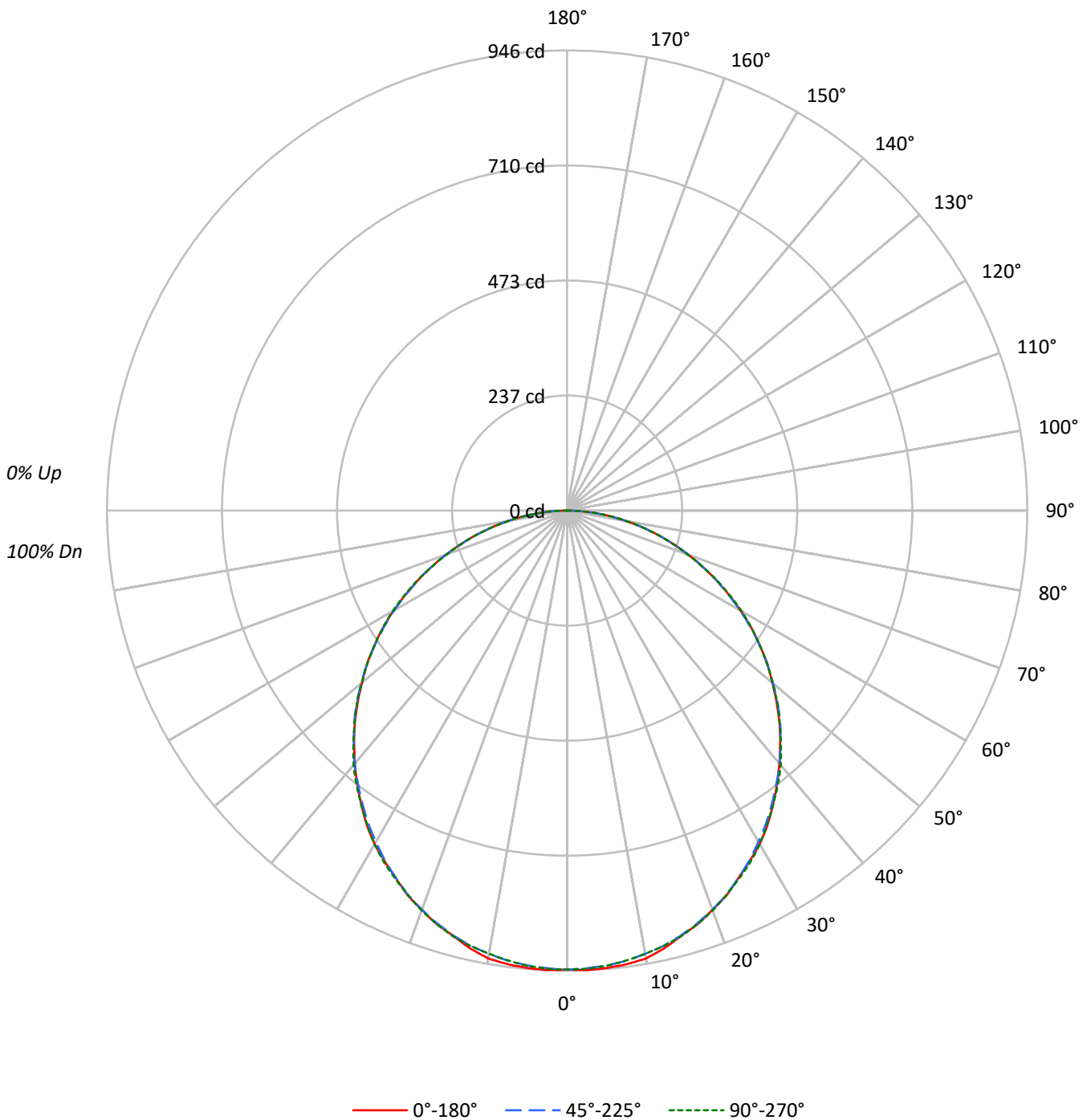
Input Watts (W): 20.367
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1270	1270	1270
5°	1275	1268	1269
10°	1277	1264	1264
15°	1260	1260	1262
20°	1251	1250	1253
25°	1237	1237	1240
30°	1230	1222	1231
35°	1212	1206	1212
40°	1192	1193	1200
45°	1175	1179	1177
50°	1153	1157	1154
55°	1135	1132	1135
60°	1109	1105	1115
65°	1074	1079	1082
70°	1040	1044	1037
75°	1003	1003	1003
80°	948	948	957
85°	875	885	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	3.3
10°-20°	255.1	9.4
20°-30°	384.4	14.2
30°-40°	460.4	17.1
40°-50°	476.6	17.7
50°-60°	432.1	16.0
60°-70°	335.0	12.4
70°-80°	203.7	7.5
80°-90°	63.4	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°	728.7	27.0
0°-40°	1189.1	44.0
0°-60°	2097.8	77.7
0°-90°	2700.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2700.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	944	944	944	944	944	
5°	944	938	939	937	939	90
15°	905	906	904	901	906	256
25°	834	834	833	835	835	385
35°	738	733	734	737	738	462
45°	618	619	620	617	618	476
55°	484	481	483	485	484	433
65°	338	339	339	338	340	335
75°	193	192	193	192	193	204
85°	57	56	57	57	55	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	943.7	943.7	943.7	943.7	943.7
2.5°	945.6	941.8	941.8	940.5	942.4
5°	943.7	938.0	938.6	937.3	939.2
7.5°	940.5	932.9	933.5	932.2	932.9
10°	934.8	925.9	925.2	924.6	925.2
12.5°	922.0	916.9	916.3	915.0	916.9
15°	904.8	905.5	904.2	901.0	906.1
17.5°	891.5	890.8	889.6	886.4	891.5
20°	873.6	874.3	873.0	871.7	874.9
22.5°	856.4	854.5	855.2	854.5	855.2
25°	833.5	833.5	832.9	835.4	835.4
27.5°	812.5	810.0	811.2	813.8	815.1
30°	791.5	785.1	786.4	788.9	792.1
32.5°	766.7	760.3	761.6	764.1	765.4
35°	738.0	732.9	734.2	737.4	738.0
37.5°	708.7	705.5	706.8	709.4	711.3
40°	678.8	677.5	679.4	678.8	683.2
42.5°	648.2	647.6	649.5	649.5	650.1
45°	617.7	618.9	619.6	617.0	618.3
47.5°	583.9	584.5	587.1	585.8	586.5
50°	550.8	550.2	552.7	553.3	551.4
52.5°	519.0	515.8	518.3	519.6	518.3
55°	483.9	481.4	482.7	484.6	483.9
57.5°	449.6	447.0	447.6	450.8	449.6
60°	412.0	411.3	410.7	413.3	414.5
62.5°	375.1	374.4	373.1	375.7	377.0
65°	337.5	339.4	338.8	337.5	340.0
67.5°	301.8	303.7	301.8	300.6	300.6
70°	264.3	266.2	265.5	264.3	263.6
72.5°	229.2	229.2	228.0	227.3	228.0
75°	192.9	192.3	192.9	192.3	192.9
77.5°	157.3	157.9	157.9	157.9	157.3
80°	122.3	122.3	122.3	122.9	123.5
82.5°	89.8	87.9	89.8	88.5	89.1
85°	56.7	56.0	57.3	56.7	55.4
87.5°	25.5	26.1	26.1	26.7	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)