

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: P294352

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294352
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-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2688.0 lumens
Efficiency: N/A
Efficacy: 115.6 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

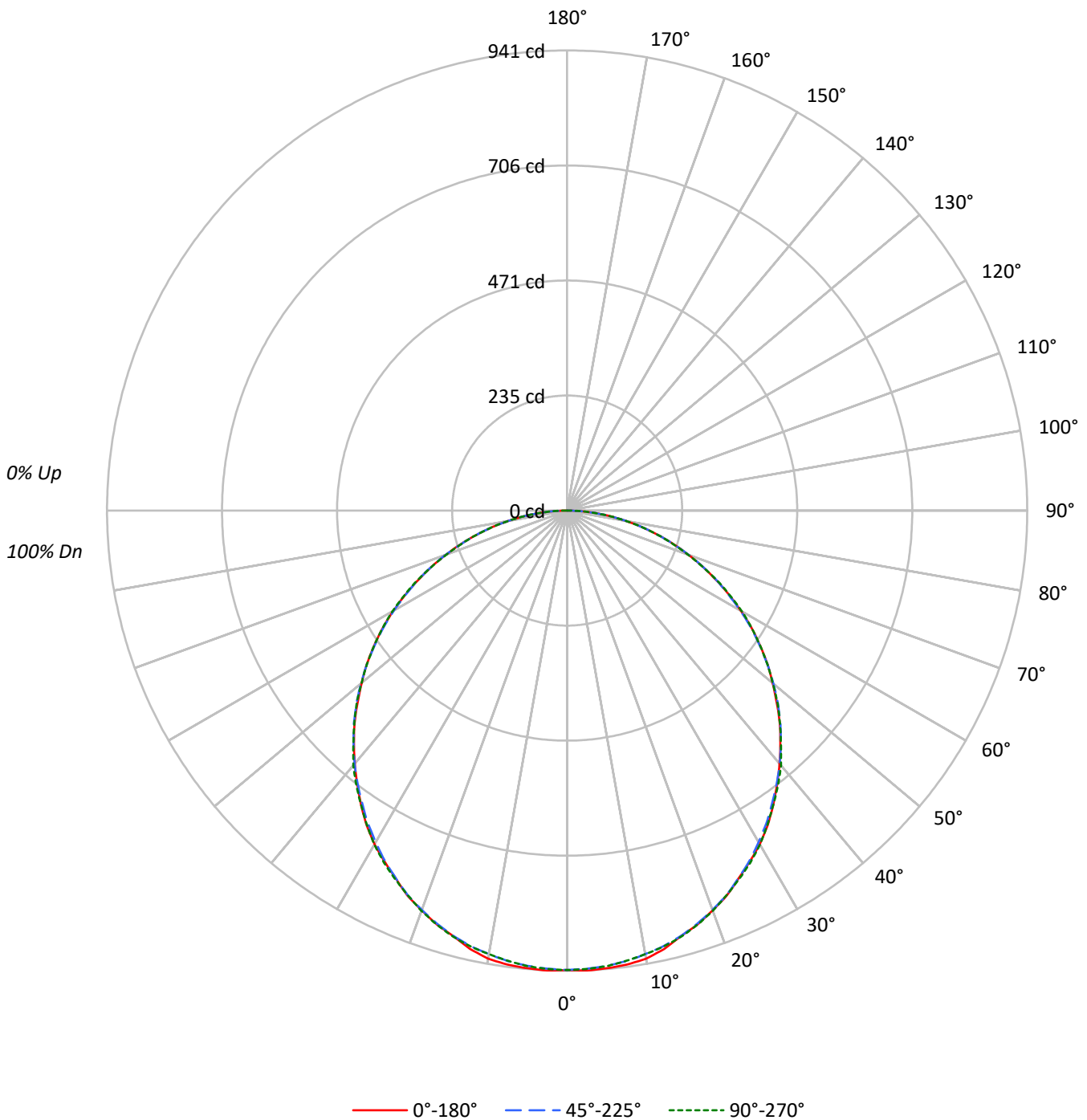
Input Watts (W): 23.25
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1264	1264	1264
5°	1269	1262	1263
10°	1271	1258	1258
15°	1255	1254	1257
20°	1245	1244	1247
25°	1232	1231	1235
30°	1224	1216	1225
35°	1207	1201	1207
40°	1187	1188	1195
45°	1170	1174	1171
50°	1148	1152	1149
55°	1130	1127	1130
60°	1104	1100	1111
65°	1070	1074	1078
70°	1035	1040	1032
75°	999	999	999
80°	943	943	953
85°	871	881	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	3.3
10°-20°	253.9	9.4
20°-30°	382.7	14.2
30°-40°	458.4	17.1
40°-50°	474.5	17.7
50°-60°	430.2	16.0
60°-70°	333.5	12.4
70°-80°	202.8	7.5
80°-90°	63.1	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°	725.5	27.0
0°-40°	1183.8	44.0
0°-60°	2088.5	77.7
0°-90°	2688.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2688.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	940	940	940	940	940	
5°	940	934	934	933	935	89
15°	901	902	900	897	902	255
25°	830	830	829	832	832	383
35°	735	730	731	734	735	460
45°	615	616	617	614	616	474
55°	482	479	480	482	482	431
65°	336	338	337	336	338	333
75°	192	191	192	191	192	203
85°	56	56	57	56	55	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	939.5	939.5	939.5	939.5	939.5
2.5°	941.4	937.6	937.6	936.3	938.2
5°	939.5	933.8	934.4	933.1	935.0
7.5°	936.3	928.7	929.3	928.1	928.7
10°	930.6	921.7	921.1	920.5	921.1
12.5°	917.9	912.9	912.2	911.0	912.9
15°	900.8	901.5	900.2	897.0	902.1
17.5°	887.5	886.9	885.6	882.4	887.5
20°	869.8	870.4	869.1	867.9	871.0
22.5°	852.6	850.7	851.4	850.7	851.4
25°	829.8	829.8	829.2	831.7	831.7
27.5°	808.9	806.4	807.6	810.2	811.4
30°	788.0	781.6	782.9	785.4	788.6
32.5°	763.3	756.9	758.2	760.7	762.0
35°	734.7	729.7	730.9	734.1	734.7
37.5°	705.6	702.4	703.7	706.2	708.1
40°	675.8	674.5	676.4	675.8	680.2
42.5°	645.3	644.7	646.6	646.6	647.2
45°	614.9	616.2	616.8	614.3	615.5
47.5°	581.3	581.9	584.5	583.2	583.9
50°	548.4	547.7	550.3	550.9	549.0
52.5°	516.7	513.5	516.0	517.3	516.0
55°	481.8	479.3	480.5	482.4	481.8
57.5°	447.6	445.0	445.7	448.8	447.6
60°	410.2	409.5	408.9	411.4	412.7
62.5°	373.4	372.8	371.5	374.0	375.3
65°	336.0	337.9	337.3	336.0	338.5
67.5°	300.5	302.4	300.5	299.2	299.2
70°	263.1	265.0	264.3	263.1	262.4
72.5°	228.2	228.2	226.9	226.3	226.9
75°	192.1	191.4	192.1	191.4	192.1
77.5°	156.6	157.2	157.2	157.2	156.6
80°	121.7	121.7	121.7	122.3	123.0
82.5°	89.4	87.5	89.4	88.1	88.8
85°	56.4	55.8	57.1	56.4	55.2
87.5°	25.4	26.0	26.0	26.6	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)