

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: P294353

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294353
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-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2758.0 lumens
Efficiency: N/A
Efficacy: 117.7 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

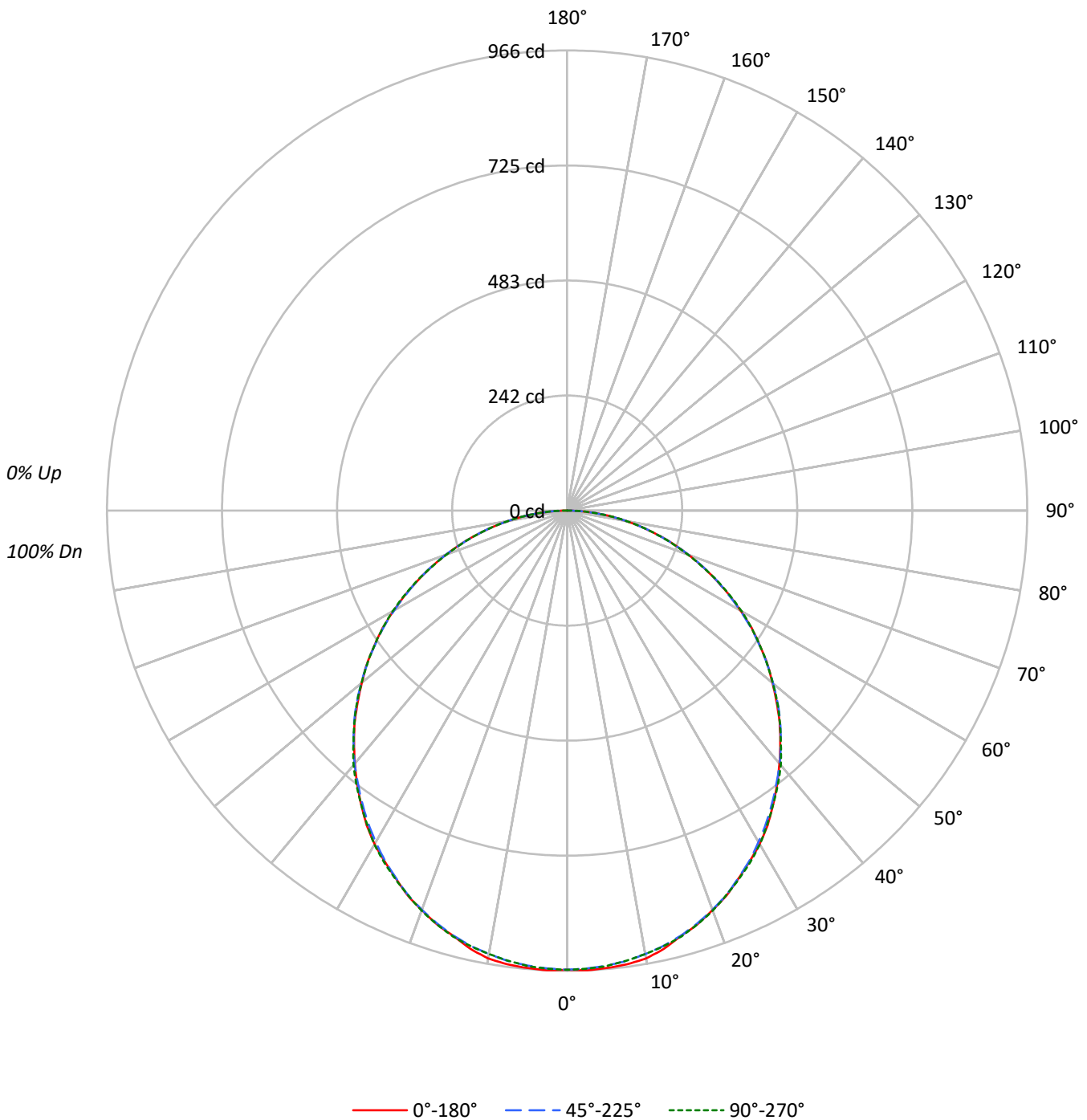
Input Watts (W): 23.436
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1297	1297	1297
5°	1302	1295	1296
10°	1304	1291	1291
15°	1288	1287	1289
20°	1278	1277	1280
25°	1264	1263	1267
30°	1256	1248	1257
35°	1238	1232	1238
40°	1218	1219	1226
45°	1200	1204	1202
50°	1178	1182	1179
55°	1160	1156	1160
60°	1132	1129	1139
65°	1097	1102	1106
70°	1062	1067	1059
75°	1025	1025	1025
80°	968	968	978
85°	894	903	874



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	3.3
10°-20°	260.6	9.4
20°-30°	392.7	14.2
30°-40°	470.3	17.1
40°-50°	486.8	17.7
50°-60°	441.4	16.0
60°-70°	342.2	12.4
70°-80°	208.1	7.5
80°-90°	64.7	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°	744.4	27.0
0°-40°	1214.7	44.0
0°-60°	2142.9	77.7
0°-90°	2758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	964	958	959	957	959	92
15°	924	925	924	920	926	261
25°	851	851	851	853	853	393
35°	754	749	750	753	754	472
45°	631	632	633	630	632	486
55°	494	492	493	495	494	442
65°	345	347	346	345	347	342
75°	197	196	197	196	197	208
85°	58	57	58	58	57	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	964.0	964.0	964.0	964.0	964.0
2.5°	965.9	962.0	962.0	960.7	962.7
5°	964.0	958.1	958.7	957.4	959.4
7.5°	960.7	952.9	953.5	952.2	952.9
10°	954.8	945.7	945.1	944.4	945.1
12.5°	941.8	936.6	936.0	934.7	936.6
15°	924.3	924.9	923.6	920.4	925.6
17.5°	910.6	910.0	908.7	905.4	910.6
20°	892.4	893.1	891.8	890.5	893.7
22.5°	874.8	872.9	873.5	872.9	873.5
25°	851.4	851.4	850.8	853.4	853.4
27.5°	830.0	827.4	828.7	831.3	832.6
30°	808.5	802.0	803.3	805.9	809.1
32.5°	783.1	776.6	777.9	780.5	781.8
35°	753.9	748.7	750.0	753.2	753.9
37.5°	723.9	720.7	722.0	724.6	726.5
40°	693.4	692.1	694.0	693.4	697.9
42.5°	662.1	661.5	663.4	663.4	664.1
45°	630.9	632.2	632.9	630.3	631.6
47.5°	596.5	597.1	599.7	598.4	599.1
50°	562.6	562.0	564.6	565.2	563.3
52.5°	530.1	526.9	529.5	530.8	529.5
55°	494.3	491.7	493.0	495.0	494.3
57.5°	459.2	456.6	457.3	460.5	459.2
60°	420.8	420.2	419.5	422.1	423.4
62.5°	383.1	382.5	381.2	383.8	385.1
65°	344.7	346.7	346.0	344.7	347.3
67.5°	308.3	310.3	308.3	307.0	307.0
70°	269.9	271.9	271.2	269.9	269.3
72.5°	234.2	234.2	232.9	232.2	232.9
75°	197.1	196.4	197.1	196.4	197.1
77.5°	160.7	161.3	161.3	161.3	160.7
80°	124.9	124.9	124.9	125.5	126.2
82.5°	91.7	89.8	91.7	90.4	91.1
85°	57.9	57.2	58.5	57.9	56.6
87.5°	26.0	26.7	26.7	27.3	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)