

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: P294225

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294225
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-L82765-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: 2973.0 lumens
Efficiency: N/A
Efficacy: 128.9 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

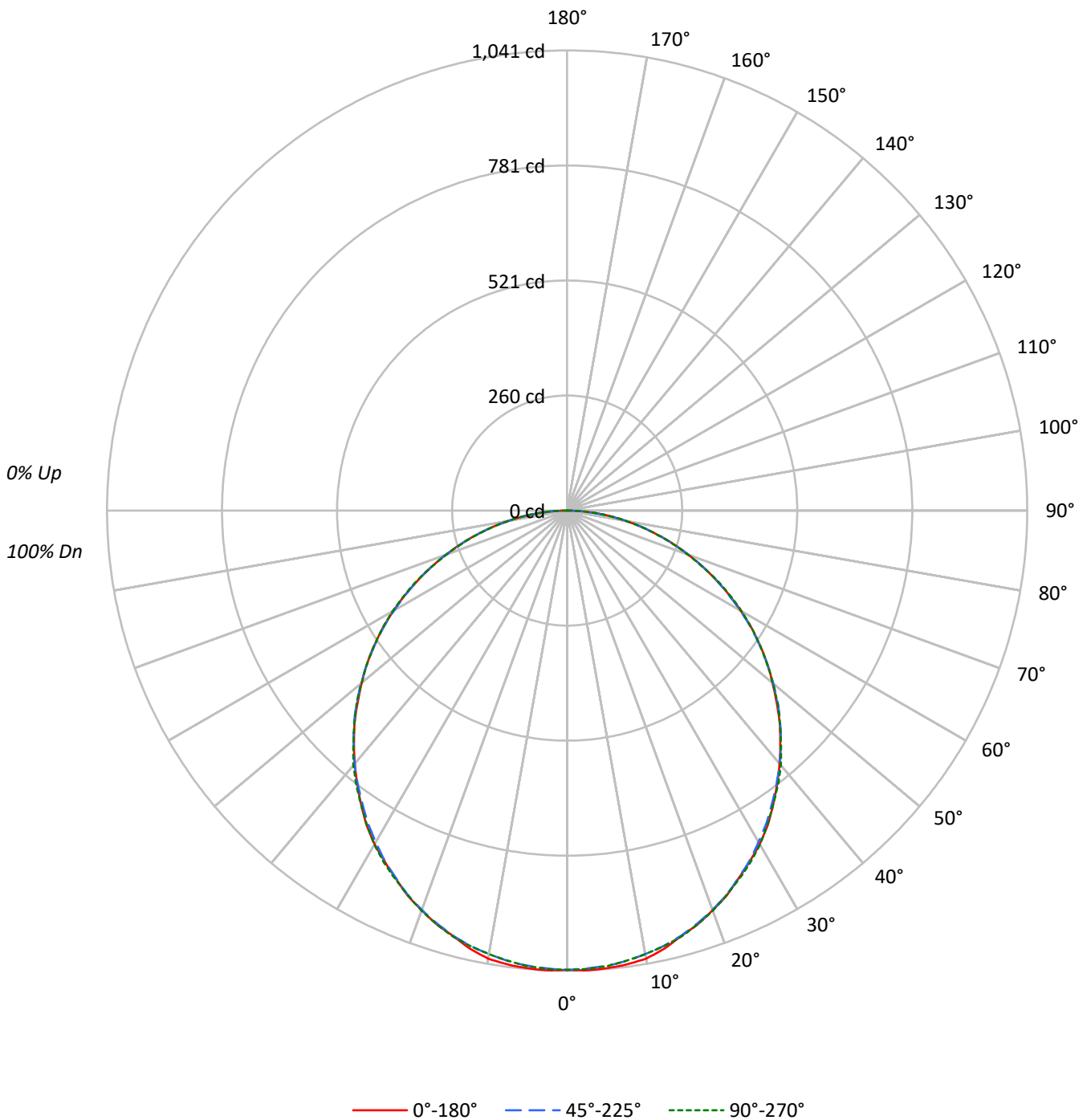
Input Watts (W): 23.064
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1398	1398	1398
5°	1403	1396	1397
10°	1406	1392	1392
15°	1388	1387	1390
20°	1377	1376	1379
25°	1363	1362	1366
30°	1354	1345	1355
35°	1335	1328	1335
40°	1313	1314	1321
45°	1294	1298	1295
50°	1270	1274	1271
55°	1250	1247	1250
60°	1221	1217	1228
65°	1183	1188	1192
70°	1145	1150	1142
75°	1104	1104	1104
80°	1043	1043	1054
85°	963	974	942



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.3	3.3
10°-20°	280.9	9.4
20°-30°	423.3	14.2
30°-40°	507.0	17.1
40°-50°	524.8	17.7
50°-60°	475.8	16.0
60°-70°	368.9	12.4
70°-80°	224.3	7.5
80°-90°	69.8	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°	802.4	27.0
0°-40°	1309.4	44.0
0°-60°	2310.0	77.7
0°-90°	2973.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2973.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1039	1039	1039	1039	1039	
5°	1039	1033	1034	1032	1034	99
15°	996	997	996	992	998	282
25°	918	918	917	920	920	424
35°	813	807	808	812	813	508
45°	680	682	682	679	681	524
55°	533	530	532	534	533	476
65°	372	374	373	372	374	369
75°	212	212	212	212	212	224
85°	62	62	63	62	61	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1039.1	1039.1	1039.1	1039.1	1039.1
2.5°	1041.2	1037.0	1037.0	1035.6	1037.7
5°	1039.1	1032.8	1033.5	1032.1	1034.2
7.5°	1035.6	1027.2	1027.9	1026.5	1027.2
10°	1029.3	1019.5	1018.8	1018.1	1018.8
12.5°	1015.3	1009.6	1008.9	1007.5	1009.6
15°	996.3	997.0	995.6	992.1	997.7
17.5°	981.6	980.9	979.5	976.0	981.6
20°	962.0	962.7	961.3	959.9	963.4
22.5°	943.0	940.9	941.6	940.9	941.6
25°	917.8	917.8	917.1	919.9	919.9
27.5°	894.7	891.9	893.3	896.1	897.5
30°	871.5	864.5	865.9	868.7	872.2
32.5°	844.2	837.2	838.6	841.4	842.8
35°	812.6	807.0	808.4	811.9	812.6
37.5°	780.4	776.9	778.3	781.1	783.2
40°	747.4	746.0	748.1	747.4	752.3
42.5°	713.8	713.1	715.2	715.2	715.9
45°	680.1	681.5	682.2	679.4	680.8
47.5°	643.0	643.7	646.5	645.1	645.8
50°	606.5	605.8	608.6	609.3	607.2
52.5°	571.4	567.9	570.7	572.1	570.7
55°	532.9	530.1	531.5	533.6	532.9
57.5°	495.0	492.2	492.9	496.4	495.0
60°	453.6	452.9	452.2	455.0	456.4
62.5°	413.0	412.3	410.9	413.7	415.1
65°	371.6	373.7	373.0	371.6	374.4
67.5°	332.3	334.4	332.3	330.9	330.9
70°	291.0	293.1	292.4	291.0	290.3
72.5°	252.4	252.4	251.0	250.3	251.0
75°	212.4	211.7	212.4	211.7	212.4
77.5°	173.2	173.9	173.9	173.9	173.2
80°	134.6	134.6	134.6	135.3	136.0
82.5°	98.9	96.8	98.9	97.5	98.2
85°	62.4	61.7	63.1	62.4	61.0
87.5°	28.0	28.7	28.7	29.4	29.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)