

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: P294355

Luminaire Tested: **24GR-LD5-34-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294355
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2857.0 lumens
Efficiency: N/A
Efficacy: 120.9 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

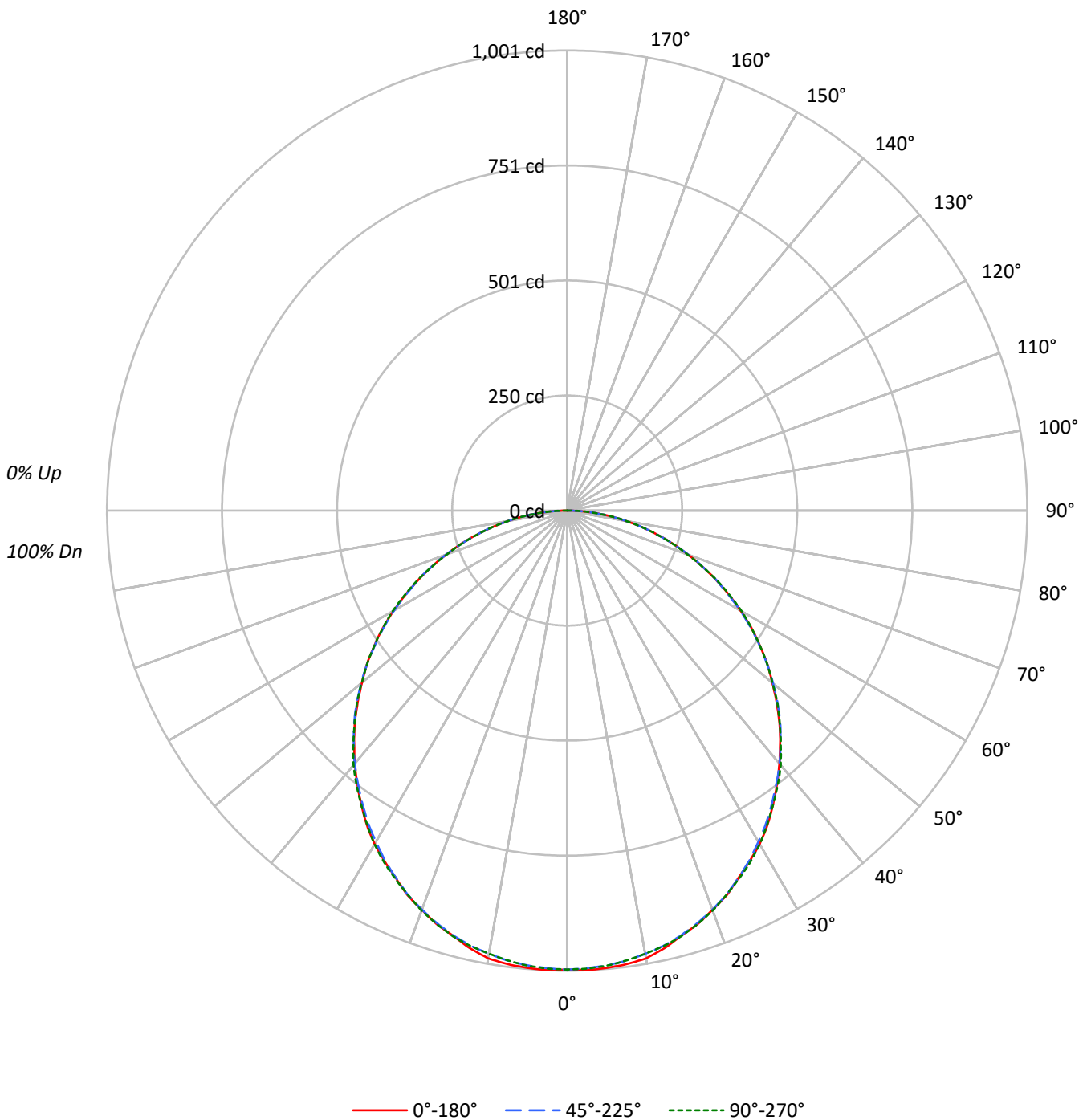
Input Watts (W): 23.622
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1344	1344	1344
5°	1349	1341	1342
10°	1351	1338	1338
15°	1334	1333	1336
20°	1324	1323	1326
25°	1309	1308	1312
30°	1301	1293	1302
35°	1283	1276	1283
40°	1262	1263	1270
45°	1244	1247	1245
50°	1220	1224	1221
55°	1201	1198	1201
60°	1173	1169	1180
65°	1137	1141	1145
70°	1100	1105	1097
75°	1062	1062	1062
80°	1003	1003	1013
85°	926	936	905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	3.3
10°-20°	269.9	9.4
20°-30°	406.8	14.2
30°-40°	487.2	17.1
40°-50°	504.3	17.7
50°-60°	457.3	16.0
60°-70°	354.5	12.4
70°-80°	215.6	7.5
80°-90°	67.1	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°	771.1	27.0
0°-40°	1258.3	44.0
0°-60°	2219.8	77.7
0°-90°	2857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2857.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	999	999	999	999	999	
5°	999	992	993	992	994	95
15°	958	958	957	953	959	271
25°	882	882	881	884	884	407
35°	781	776	777	780	781	489
45°	654	655	656	653	654	503
55°	512	509	511	513	512	458
65°	357	359	358	357	360	354
75°	204	204	204	204	204	216
85°	60	59	61	60	59	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	998.6	998.6	998.6	998.6	998.6
2.5°	1000.6	996.5	996.5	995.2	997.2
5°	998.6	992.5	993.2	991.8	993.8
7.5°	995.2	987.1	987.8	986.4	987.1
10°	989.1	979.7	979.0	978.3	979.0
12.5°	975.6	970.3	969.6	968.2	970.3
15°	957.5	958.1	956.8	953.4	958.8
17.5°	943.3	942.6	941.3	937.9	943.3
20°	924.4	925.1	923.8	922.4	925.8
22.5°	906.2	904.2	904.9	904.2	904.9
25°	882.0	882.0	881.3	884.0	884.0
27.5°	859.8	857.1	858.4	861.1	862.4
30°	837.5	830.8	832.1	834.8	838.2
32.5°	811.2	804.5	805.9	808.5	809.9
35°	780.9	775.5	776.9	780.2	780.9
37.5°	749.9	746.6	747.9	750.6	752.6
40°	718.3	716.9	718.9	718.3	723.0
42.5°	685.9	685.2	687.3	687.3	687.9
45°	653.6	654.9	655.6	652.9	654.2
47.5°	617.9	618.5	621.2	619.9	620.6
50°	582.8	582.2	584.8	585.5	583.5
52.5°	549.1	545.8	548.5	549.8	548.5
55°	512.1	509.4	510.7	512.8	512.1
57.5°	475.7	473.0	473.7	477.0	475.7
60°	435.9	435.3	434.6	437.3	438.6
62.5°	396.9	396.2	394.8	397.5	398.9
65°	357.1	359.1	358.5	357.1	359.8
67.5°	319.4	321.4	319.4	318.0	318.0
70°	279.6	281.6	281.0	279.6	278.9
72.5°	242.6	242.6	241.2	240.5	241.2
75°	204.2	203.5	204.2	203.5	204.2
77.5°	166.4	167.1	167.1	167.1	166.4
80°	129.4	129.4	129.4	130.0	130.7
82.5°	95.0	93.0	95.0	93.7	94.3
85°	60.0	59.3	60.6	60.0	58.6
87.5°	27.0	27.6	27.6	28.3	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)