

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: P294362

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294362
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-LD5-38-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: 3040.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

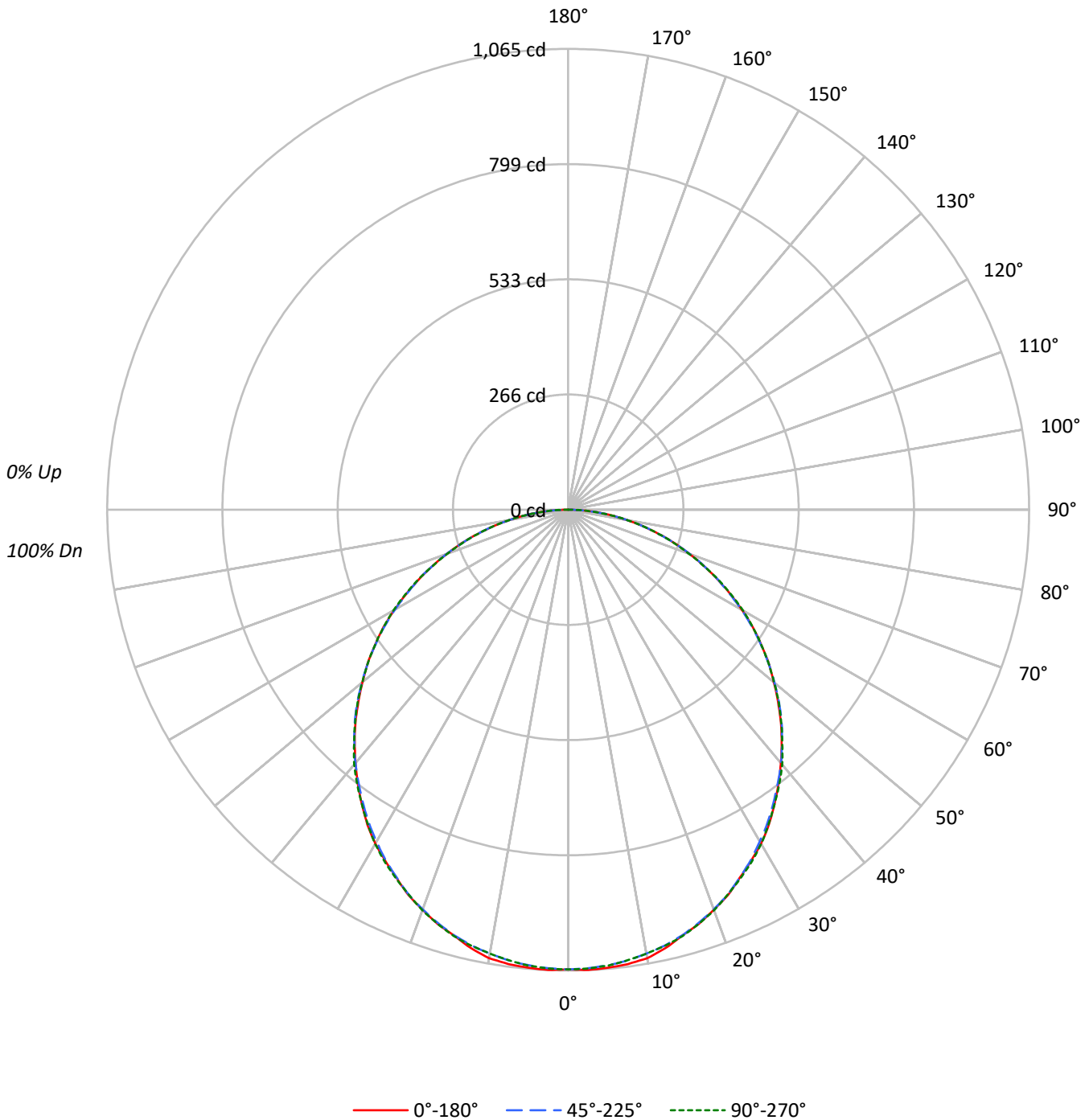
Input Watts (W): 25.854
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1430	1430	1430
5°	1435	1427	1428
10°	1438	1423	1423
15°	1419	1418	1421
20°	1409	1407	1411
25°	1393	1392	1396
30°	1385	1376	1386
35°	1365	1358	1365
40°	1342	1344	1351
45°	1323	1327	1325
50°	1298	1303	1300
55°	1278	1275	1278
60°	1248	1244	1256
65°	1210	1214	1219
70°	1170	1176	1168
75°	1129	1129	1129
80°	1067	1067	1078
85°	985	996	963



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	3.3
10°-20°	287.2	9.4
20°-30°	432.8	14.2
30°-40°	518.4	17.1
40°-50°	536.6	17.7
50°-60°	486.5	16.0
60°-70°	377.2	12.4
70°-80°	229.4	7.5
80°-90°	71.4	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°	820.5	27.0
0°-40°	1338.9	44.0
0°-60°	2362.0	77.7
0°-90°	3040.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3040.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1062	1062	1062	1062	1062	
5°	1062	1056	1057	1055	1058	101
15°	1019	1020	1018	1014	1020	288
25°	938	938	938	941	941	433
35°	831	825	827	830	831	520
45°	695	697	698	695	696	536
55°	545	542	543	546	545	487
65°	380	382	381	380	383	377
75°	217	216	217	216	217	229
85°	64	63	64	64	62	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062.5	1062.5	1062.5	1062.5	1062.5
2.5°	1064.7	1060.4	1060.4	1058.9	1061.1
5°	1062.5	1056.1	1056.8	1055.3	1057.5
7.5°	1058.9	1050.3	1051.0	1049.6	1050.3
10°	1052.5	1042.4	1041.7	1041.0	1041.7
12.5°	1038.1	1032.4	1031.7	1030.3	1032.4
15°	1018.8	1019.5	1018.1	1014.5	1020.2
17.5°	1003.7	1003.0	1001.6	998.0	1003.7
20°	983.7	984.4	982.9	981.5	985.1
22.5°	964.3	962.1	962.9	962.1	962.9
25°	938.5	938.5	937.8	940.6	940.6
27.5°	914.8	912.0	913.4	916.3	917.7
30°	891.2	884.0	885.4	888.3	891.9
32.5°	863.2	856.0	857.5	860.3	861.8
35°	830.9	825.2	826.6	830.2	830.9
37.5°	798.0	794.4	795.8	798.7	800.8
40°	764.3	762.8	765.0	764.3	769.3
42.5°	729.9	729.1	731.3	731.3	732.0
45°	695.4	696.9	697.6	694.7	696.2
47.5°	657.4	658.2	661.0	659.6	660.3
50°	620.2	619.4	622.3	623.0	620.9
52.5°	584.3	580.7	583.6	585.0	583.6
55°	544.9	542.0	543.4	545.6	544.9
57.5°	506.2	503.3	504.0	507.6	506.2
60°	463.9	463.1	462.4	465.3	466.7
62.5°	422.3	421.6	420.1	423.0	424.4
65°	380.0	382.1	381.4	380.0	382.8
67.5°	339.8	342.0	339.8	338.4	338.4
70°	297.5	299.7	299.0	297.5	296.8
72.5°	258.1	258.1	256.7	255.9	256.7
75°	217.2	216.5	217.2	216.5	217.2
77.5°	177.1	177.8	177.8	177.8	177.1
80°	137.7	137.7	137.7	138.4	139.1
82.5°	101.1	98.9	101.1	99.7	100.4
85°	63.8	63.1	64.5	63.8	62.4
87.5°	28.7	29.4	29.4	30.1	30.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)