

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: P294343

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294343
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-LD5-30-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: 2347.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

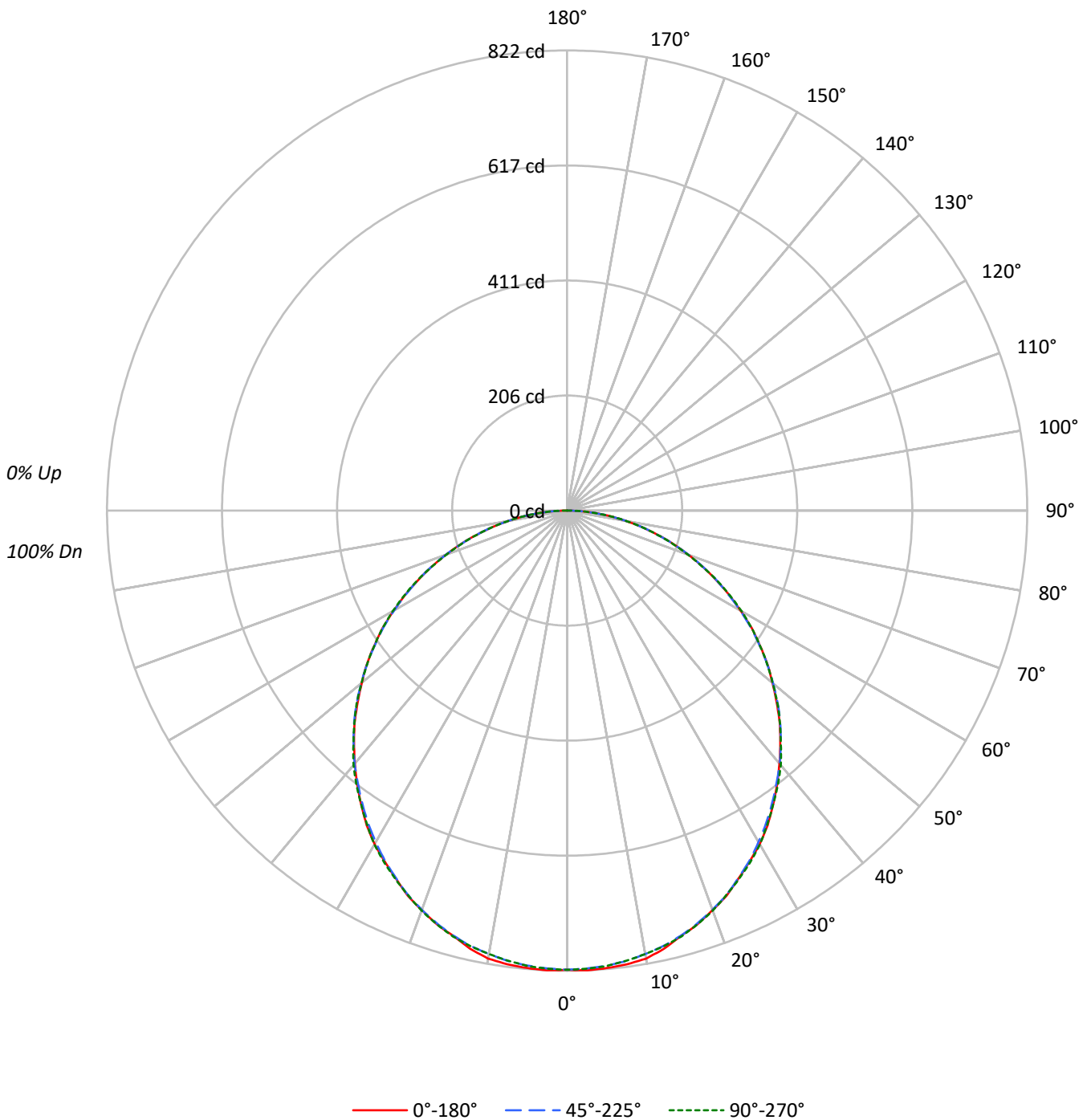
Input Watts (W): 20.274
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1104	1104	1104
5°	1108	1102	1103
10°	1110	1099	1099
15°	1096	1095	1097
20°	1087	1087	1089
25°	1076	1075	1078
30°	1069	1062	1070
35°	1054	1048	1054
40°	1036	1037	1043
45°	1022	1025	1023
50°	1002	1006	1003
55°	987	984	987
60°	964	961	970
65°	934	938	941
70°	904	908	902
75°	872	872	872
80°	824	824	832
85°	761	769	744



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.6	3.3
10°-20°	221.7	9.4
20°-30°	334.2	14.2
30°-40°	400.2	17.1
40°-50°	414.3	17.7
50°-60°	375.6	16.0
60°-70°	291.2	12.4
70°-80°	177.1	7.5
80°-90°	55.1	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°	633.5	27.0
0°-40°	1033.7	44.0
0°-60°	1823.6	77.7
0°-90°	2347.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2347.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	820	820	820	820	820	
5°	820	815	816	815	816	78
15°	786	787	786	783	788	222
25°	724	724	724	726	726	334
35°	642	637	638	641	642	401
45°	537	538	539	536	538	414
55°	421	418	420	421	421	376
65°	293	295	294	293	296	291
75°	168	167	168	167	168	177
85°	49	49	50	49	48	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	820.3	820.3	820.3	820.3	820.3
2.5°	822.0	818.6	818.6	817.5	819.2
5°	820.3	815.3	815.9	814.8	816.4
7.5°	817.5	810.9	811.4	810.3	810.9
10°	812.6	804.8	804.3	803.7	804.3
12.5°	801.5	797.1	796.5	795.4	797.1
15°	786.5	787.1	786.0	783.2	787.6
17.5°	774.9	774.4	773.3	770.5	774.9
20°	759.4	760.0	758.9	757.8	760.5
22.5°	744.5	742.8	743.4	742.8	743.4
25°	724.5	724.5	724.0	726.2	726.2
27.5°	706.3	704.1	705.2	707.4	708.5
30°	688.0	682.5	683.6	685.8	688.6
32.5°	666.4	660.9	662.0	664.2	665.3
35°	641.5	637.1	638.2	641.0	641.5
37.5°	616.1	613.3	614.4	616.6	618.3
40°	590.0	588.9	590.6	590.0	593.9
42.5°	563.5	562.9	564.6	564.6	565.1
45°	536.9	538.0	538.6	536.4	537.5
47.5°	507.6	508.1	510.3	509.2	509.8
50°	478.8	478.2	480.4	481.0	479.3
52.5°	451.1	448.3	450.6	451.7	450.6
55°	420.7	418.5	419.6	421.2	420.7
57.5°	390.8	388.6	389.1	391.9	390.8
60°	358.1	357.6	357.0	359.2	360.3
62.5°	326.0	325.5	324.4	326.6	327.7
65°	293.4	295.0	294.5	293.4	295.6
67.5°	262.4	264.0	262.4	261.3	261.3
70°	229.7	231.4	230.8	229.7	229.2
72.5°	199.3	199.3	198.2	197.6	198.2
75°	167.7	167.2	167.7	167.2	167.7
77.5°	136.7	137.3	137.3	137.3	136.7
80°	106.3	106.3	106.3	106.8	107.4
82.5°	78.0	76.4	78.0	76.9	77.5
85°	49.3	48.7	49.8	49.3	48.2
87.5°	22.1	22.7	22.7	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)