

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: P294298

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L93050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294298
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-L93050-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: 2482.0 lumens
Efficiency: N/A
Efficacy: 119.1 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

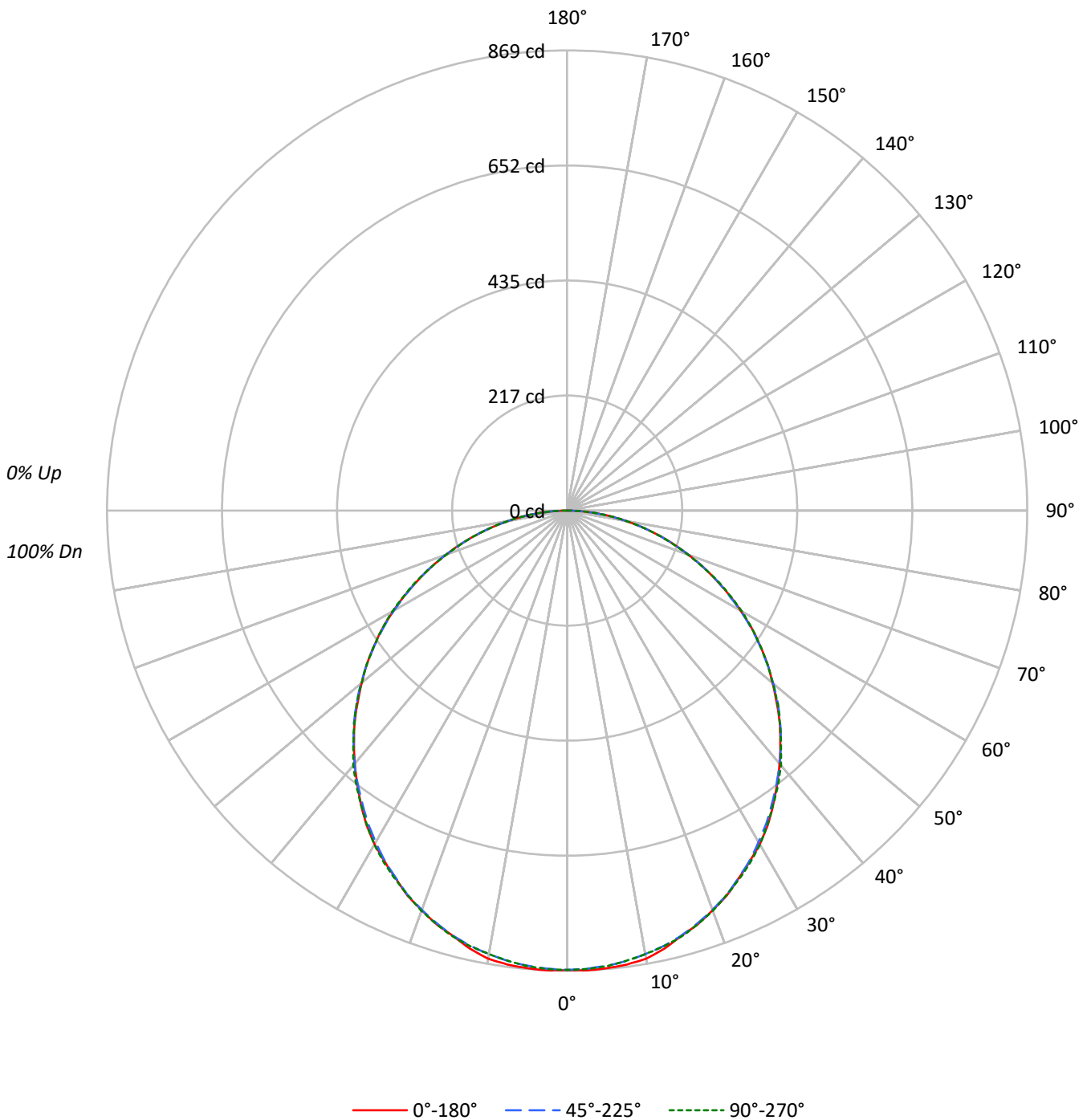
Input Watts (W): 20.83479
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1167	1167	1167
5°	1172	1165	1166
10°	1174	1162	1162
15°	1159	1158	1160
20°	1150	1149	1152
25°	1137	1137	1140
30°	1130	1123	1131
35°	1114	1109	1114
40°	1096	1097	1103
45°	1080	1084	1082
50°	1060	1064	1061
55°	1044	1041	1044
60°	1019	1016	1026
65°	988	991	995
70°	956	960	953
75°	922	922	922
80°	871	871	880
85°	804	814	786



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.0	3.3
10°-20°	234.5	9.4
20°-30°	353.4	14.2
30°-40°	423.2	17.1
40°-50°	438.1	17.7
50°-60°	397.2	16.0
60°-70°	308.0	12.4
70°-80°	187.3	7.5
80°-90°	58.3	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°	669.9	27.0
0°-40°	1093.1	44.0
0°-60°	1928.5	77.7
0°-90°	2482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2482.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	868	862	863	862	863	83
15°	832	832	831	828	833	235
25°	766	766	766	768	768	354
35°	678	674	675	678	678	424
45°	568	569	570	567	568	437
55°	445	442	444	446	445	398
65°	310	312	311	310	313	308
75°	177	177	177	177	177	187
85°	52	52	53	52	51	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	867.5	867.5	867.5	867.5	867.5
2.5°	869.2	865.7	865.7	864.6	866.3
5°	867.5	862.2	862.8	861.6	863.4
7.5°	864.6	857.5	858.1	857.0	857.5
10°	859.3	851.1	850.5	849.9	850.5
12.5°	847.6	842.9	842.3	841.1	842.9
15°	831.8	832.4	831.2	828.3	833.0
17.5°	819.5	818.9	817.7	814.8	819.5
20°	803.1	803.7	802.5	801.3	804.3
22.5°	787.3	785.5	786.1	785.5	786.1
25°	766.2	766.2	765.6	768.0	768.0
27.5°	746.9	744.6	745.7	748.1	749.2
30°	727.6	721.7	722.9	725.2	728.2
32.5°	704.8	698.9	700.1	702.4	703.6
35°	678.4	673.7	674.9	677.8	678.4
37.5°	651.5	648.6	649.7	652.1	653.8
40°	624.0	622.8	624.6	624.0	628.1
42.5°	595.9	595.3	597.1	597.1	597.6
45°	567.8	569.0	569.5	567.2	568.4
47.5°	536.8	537.4	539.7	538.5	539.1
50°	506.3	505.7	508.1	508.7	506.9
52.5°	477.1	474.1	476.5	477.6	476.5
55°	444.9	442.5	443.7	445.5	444.9
57.5°	413.3	410.9	411.5	414.4	413.3
60°	378.7	378.1	377.6	379.9	381.1
62.5°	344.8	344.2	343.0	345.4	346.5
65°	310.2	312.0	311.4	310.2	312.6
67.5°	277.5	279.2	277.5	276.3	276.3
70°	242.9	244.7	244.1	242.9	242.3
72.5°	210.7	210.7	209.6	209.0	209.6
75°	177.4	176.8	177.4	176.8	177.4
77.5°	144.6	145.2	145.2	145.2	144.6
80°	112.4	112.4	112.4	113.0	113.6
82.5°	82.5	80.8	82.5	81.4	81.9
85°	52.1	51.5	52.7	52.1	50.9
87.5°	23.4	24.0	24.0	24.6	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)