

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: P294295

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294295
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-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2067.0 lumens
Efficiency: N/A
Efficacy: 101.1 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

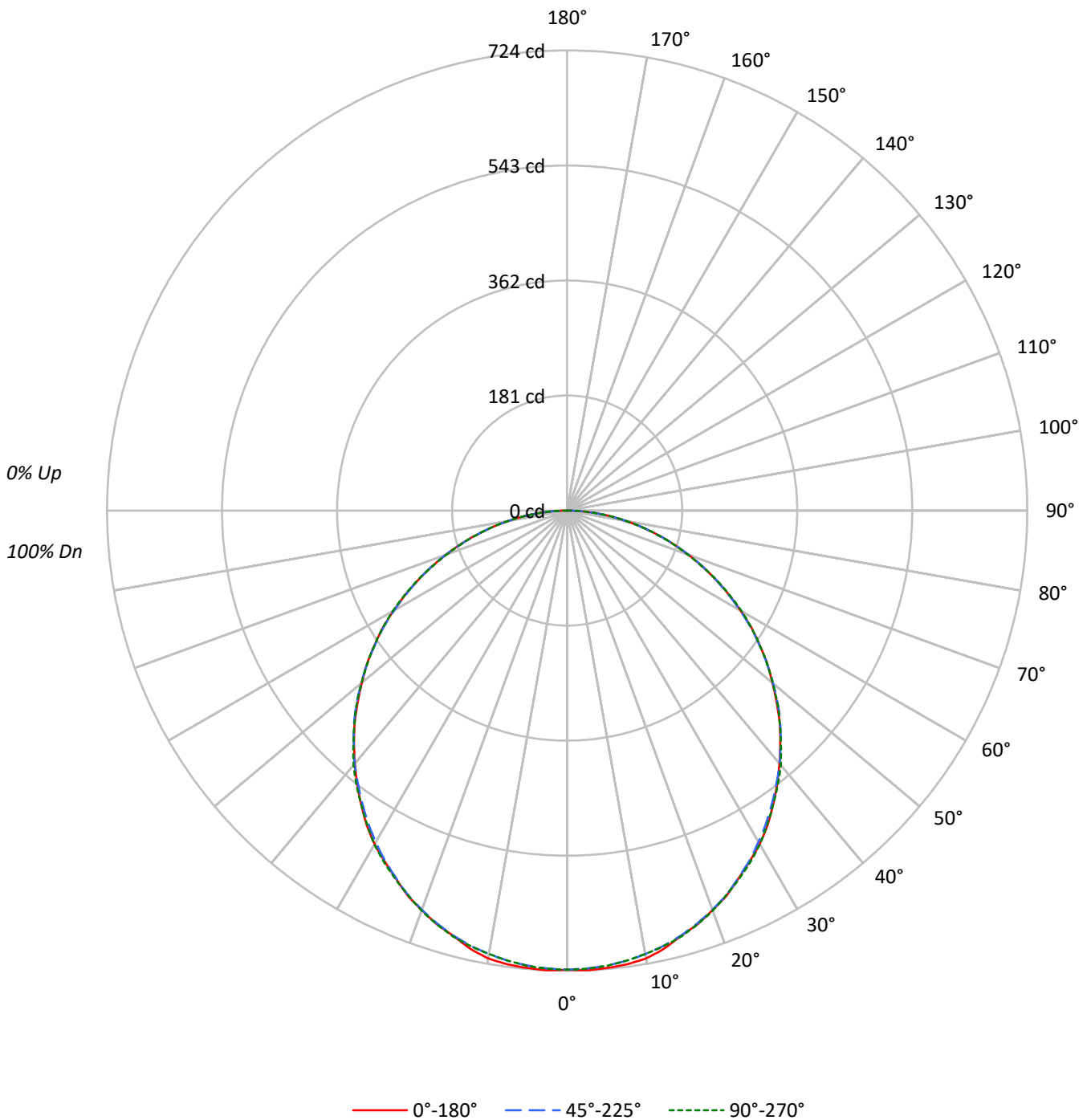
Input Watts (W): 20.454885
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	972	972	972
5°	976	970	971
10°	978	968	968
15°	965	964	966
20°	958	957	959
25°	947	947	950
30°	941	935	942
35°	928	923	928
40°	913	914	919
45°	900	903	901
50°	883	886	884
55°	869	867	869
60°	849	846	854
65°	823	826	829
70°	796	800	794
75°	768	768	768
80°	725	725	733
85°	670	678	655



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	3.3
10°-20°	195.3	9.4
20°-30°	294.3	14.2
30°-40°	352.5	17.1
40°-50°	364.9	17.7
50°-60°	330.8	16.0
60°-70°	256.5	12.4
70°-80°	156.0	7.5
80°-90°	48.5	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°	557.9	27.0
0°-40°	910.3	44.0
0°-60°	1606.0	77.7
0°-90°	2067.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2067.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	722	722	722	722	722	
5°	722	718	718	718	719	69
15°	693	693	692	690	694	196
25°	638	638	638	640	640	295
35°	565	561	562	564	565	353
45°	473	474	474	472	473	364
55°	370	368	370	371	370	331
65°	258	260	259	258	260	256
75°	148	147	148	147	148	156
85°	43	43	44	43	42	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	722.4	722.4	722.4	722.4	722.4
2.5°	723.9	721.0	721.0	720.0	721.5
5°	722.4	718.1	718.5	717.6	719.0
7.5°	720.0	714.2	714.6	713.7	714.2
10°	715.6	708.8	708.3	707.8	708.3
12.5°	705.9	702.0	701.5	700.5	702.0
15°	692.7	693.2	692.2	689.8	693.7
17.5°	682.5	682.0	681.0	678.6	682.5
20°	668.8	669.3	668.3	667.4	669.8
22.5°	655.7	654.2	654.7	654.2	654.7
25°	638.1	638.1	637.6	639.6	639.6
27.5°	622.0	620.1	621.0	623.0	624.0
30°	605.9	601.1	602.0	604.0	606.4
32.5°	586.9	582.0	583.0	585.0	585.9
35°	565.0	561.1	562.1	564.5	565.0
37.5°	542.6	540.1	541.1	543.0	544.5
40°	519.6	518.7	520.1	519.6	523.1
42.5°	496.3	495.8	497.2	497.2	497.7
45°	472.9	473.8	474.3	472.4	473.3
47.5°	447.0	447.5	449.5	448.5	449.0
50°	421.7	421.2	423.1	423.6	422.2
52.5°	397.3	394.9	396.8	397.8	396.8
55°	370.5	368.5	369.5	371.0	370.5
57.5°	344.2	342.2	342.7	345.1	344.2
60°	315.4	314.9	314.4	316.4	317.3
62.5°	287.1	286.6	285.7	287.6	288.6
65°	258.4	259.8	259.3	258.4	260.3
67.5°	231.1	232.5	231.1	230.1	230.1
70°	202.3	203.8	203.3	202.3	201.8
72.5°	175.5	175.5	174.5	174.0	174.5
75°	147.7	147.2	147.7	147.2	147.7
77.5°	120.4	120.9	120.9	120.9	120.4
80°	93.6	93.6	93.6	94.1	94.6
82.5°	68.7	67.3	68.7	67.8	68.2
85°	43.4	42.9	43.9	43.4	42.4
87.5°	19.5	20.0	20.0	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)