

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: P294296

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294296
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-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2259.0 lumens
Efficiency: N/A
Efficacy: 110.9 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

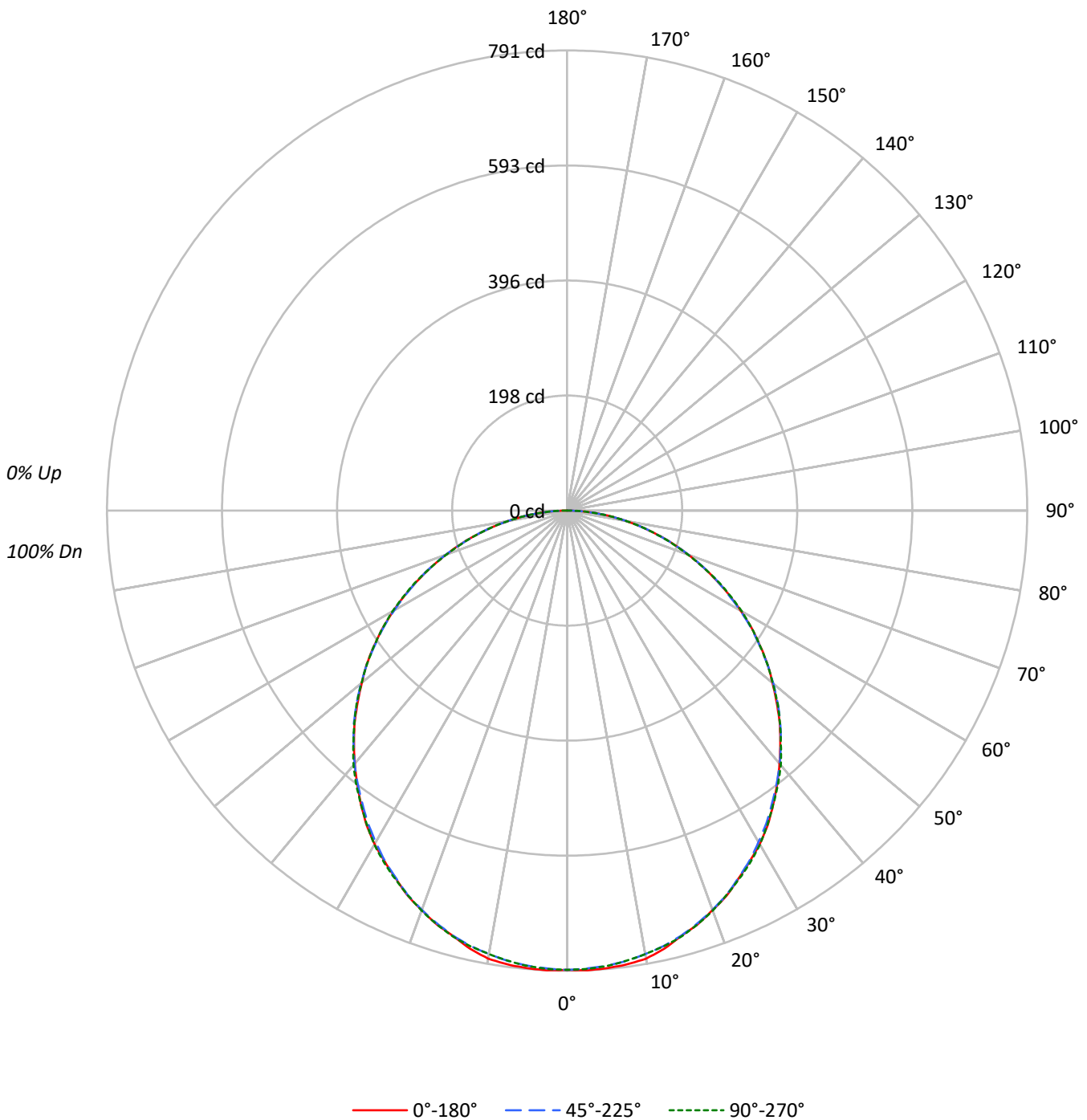
Input Watts (W): 20.374905
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1062	1062	1062
5°	1066	1061	1061
10°	1069	1058	1058
15°	1054	1054	1056
20°	1047	1046	1048
25°	1035	1034	1038
30°	1029	1022	1030
35°	1014	1009	1014
40°	997	999	1004
45°	983	986	984
50°	965	968	966
55°	950	947	950
60°	928	925	933
65°	899	902	906
70°	870	874	868
75°	839	839	839
80°	793	793	801
85°	732	739	715



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	3.3
10°-20°	213.4	9.4
20°-30°	321.6	14.2
30°-40°	385.2	17.1
40°-50°	398.7	17.7
50°-60°	361.5	16.0
60°-70°	280.3	12.4
70°-80°	170.5	7.5
80°-90°	53.0	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°	609.7	27.0
0°-40°	994.9	44.0
0°-60°	1755.2	77.7
0°-90°	2259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	790	790	790	790	790	
5°	790	785	785	784	786	75
15°	757	758	756	754	758	214
25°	697	697	697	699	699	322
35°	618	613	614	617	618	386
45°	517	518	518	516	517	398
55°	405	403	404	405	405	362
65°	282	284	283	282	284	280
75°	161	161	161	161	161	171
85°	47	47	48	47	46	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	789.5	789.5	789.5	789.5	789.5
2.5°	791.1	787.9	787.9	786.9	788.5
5°	789.5	784.8	785.3	784.2	785.8
7.5°	786.9	780.5	781.0	780.0	780.5
10°	782.1	774.6	774.1	773.6	774.1
12.5°	771.4	767.2	766.6	765.6	767.2
15°	757.0	757.6	756.5	753.9	758.1
17.5°	745.9	745.3	744.3	741.6	745.9
20°	730.9	731.5	730.4	729.3	732.0
22.5°	716.6	715.0	715.5	715.0	715.5
25°	697.4	697.4	696.8	699.0	699.0
27.5°	679.8	677.7	678.7	680.9	681.9
30°	662.2	656.9	658.0	660.1	662.8
32.5°	641.4	636.1	637.2	639.3	640.4
35°	617.5	613.2	614.3	616.9	617.5
37.5°	593.0	590.3	591.4	593.5	595.1
40°	567.9	566.9	568.5	567.9	571.6
42.5°	542.3	541.8	543.4	543.4	543.9
45°	516.8	517.8	518.4	516.2	517.3
47.5°	488.5	489.1	491.2	490.1	490.7
50°	460.8	460.3	462.4	463.0	461.4
52.5°	434.2	431.5	433.7	434.7	433.7
55°	404.9	402.8	403.8	405.4	404.9
57.5°	376.1	374.0	374.5	377.2	376.1
60°	344.7	344.2	343.6	345.8	346.8
62.5°	313.8	313.3	312.2	314.3	315.4
65°	282.4	284.0	283.4	282.4	284.5
67.5°	252.5	254.1	252.5	251.5	251.5
70°	221.1	222.7	222.2	221.1	220.6
72.5°	191.8	191.8	190.7	190.2	190.7
75°	161.4	160.9	161.4	160.9	161.4
77.5°	131.6	132.1	132.1	132.1	131.6
80°	102.3	102.3	102.3	102.8	103.4
82.5°	75.1	73.5	75.1	74.1	74.6
85°	47.4	46.9	47.9	47.4	46.3
87.5°	21.3	21.8	21.8	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)