

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: P294348

Luminaire Tested: **24GR-LD5-30-FGW080-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294348
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-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2522.0 lumens
Efficiency: N/A
Efficacy: 120.5 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

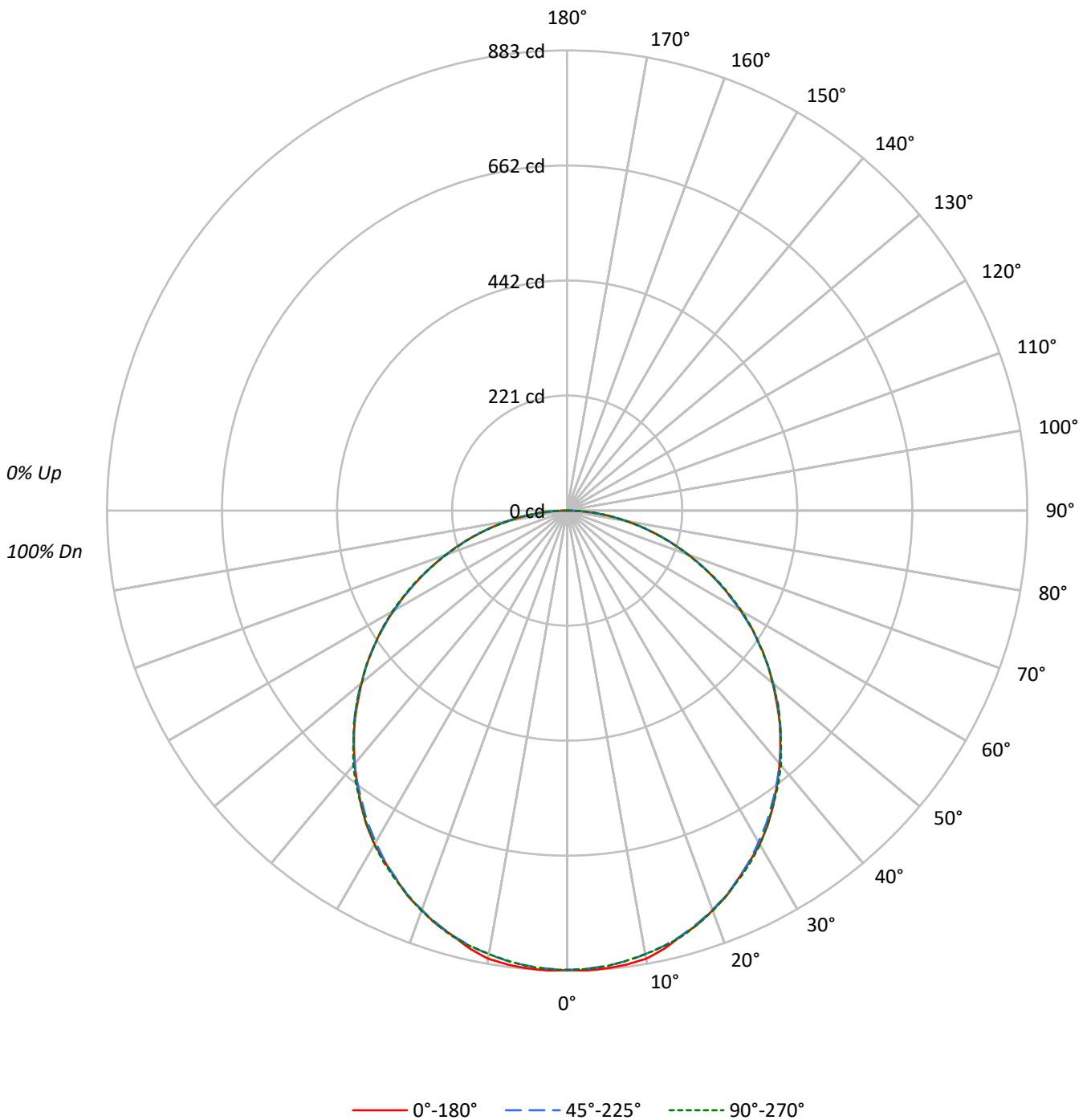
Input Watts (W): 20.925
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1186	1186	1186
5°	1191	1184	1185
10°	1193	1181	1181
15°	1177	1176	1179
20°	1168	1168	1170
25°	1156	1155	1159
30°	1149	1141	1150
35°	1132	1126	1132
40°	1114	1115	1121
45°	1098	1101	1099
50°	1077	1081	1078
55°	1060	1057	1060
60°	1035	1032	1042
65°	1004	1007	1011
70°	971	976	969
75°	937	937	937
80°	885	885	894
85°	817	826	798



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.3	3.3
10°-20°	238.3	9.4
20°-30°	359.1	14.2
30°-40°	430.1	17.1
40°-50°	445.2	17.7
50°-60°	403.6	16.0
60°-70°	312.9	12.4
70°-80°	190.3	7.5
80°-90°	59.2	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°	680.7	27.0
0°-40°	1110.7	44.0
0°-60°	1959.5	77.7
0°-90°	2522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	882	876	877	876	877	84
15°	845	846	845	842	846	239
25°	779	779	778	780	780	359
35°	689	685	686	689	689	431
45°	577	578	579	576	578	444
55°	452	450	451	453	452	404
65°	315	317	316	315	318	313
75°	180	180	180	180	180	190
85°	53	52	54	53	52	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881.5	881.5	881.5	881.5	881.5
2.5°	883.3	879.7	879.7	878.5	880.3
5°	881.5	876.1	876.7	875.5	877.3
7.5°	878.5	871.4	872.0	870.8	871.4
10°	873.1	864.8	864.2	863.6	864.2
12.5°	861.2	856.5	855.9	854.7	856.5
15°	845.2	845.8	844.6	841.6	846.4
17.5°	832.7	832.1	830.9	827.9	832.7
20°	816.0	816.6	815.4	814.3	817.2
22.5°	800.0	798.2	798.8	798.2	798.8
25°	778.6	778.6	778.0	780.4	780.4
27.5°	758.9	756.6	757.8	760.1	761.3
30°	739.3	733.4	734.6	736.9	739.9
32.5°	716.1	710.2	711.4	713.7	714.9
35°	689.4	684.6	685.8	688.8	689.4
37.5°	662.0	659.0	660.2	662.6	664.4
40°	634.0	632.8	634.6	634.0	638.2
42.5°	605.5	604.9	606.7	606.7	607.3
45°	576.9	578.1	578.7	576.3	577.5
47.5°	545.4	546.0	548.4	547.2	547.8
50°	514.5	513.9	516.3	516.9	515.1
52.5°	484.7	481.8	484.2	485.3	484.2
55°	452.0	449.7	450.8	452.6	452.0
57.5°	419.9	417.5	418.1	421.1	419.9
60°	384.8	384.2	383.6	386.0	387.2
62.5°	350.3	349.7	348.5	350.9	352.1
65°	315.2	317.0	316.4	315.2	317.6
67.5°	281.9	283.7	281.9	280.7	280.7
70°	246.8	248.6	248.0	246.8	246.2
72.5°	214.1	214.1	212.9	212.3	212.9
75°	180.2	179.6	180.2	179.6	180.2
77.5°	146.9	147.5	147.5	147.5	146.9
80°	114.2	114.2	114.2	114.8	115.4
82.5°	83.9	82.1	83.9	82.7	83.3
85°	52.9	52.3	53.5	52.9	51.7
87.5°	23.8	24.4	24.4	25.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)