

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: P294358

Luminaire Tested: **24GR-LD5-38-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294358
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-LD5-38-FGW080-UNV-L92765-W2A1-U-2700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2629.0 lumens
Efficiency: N/A
Efficacy: 103.9 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

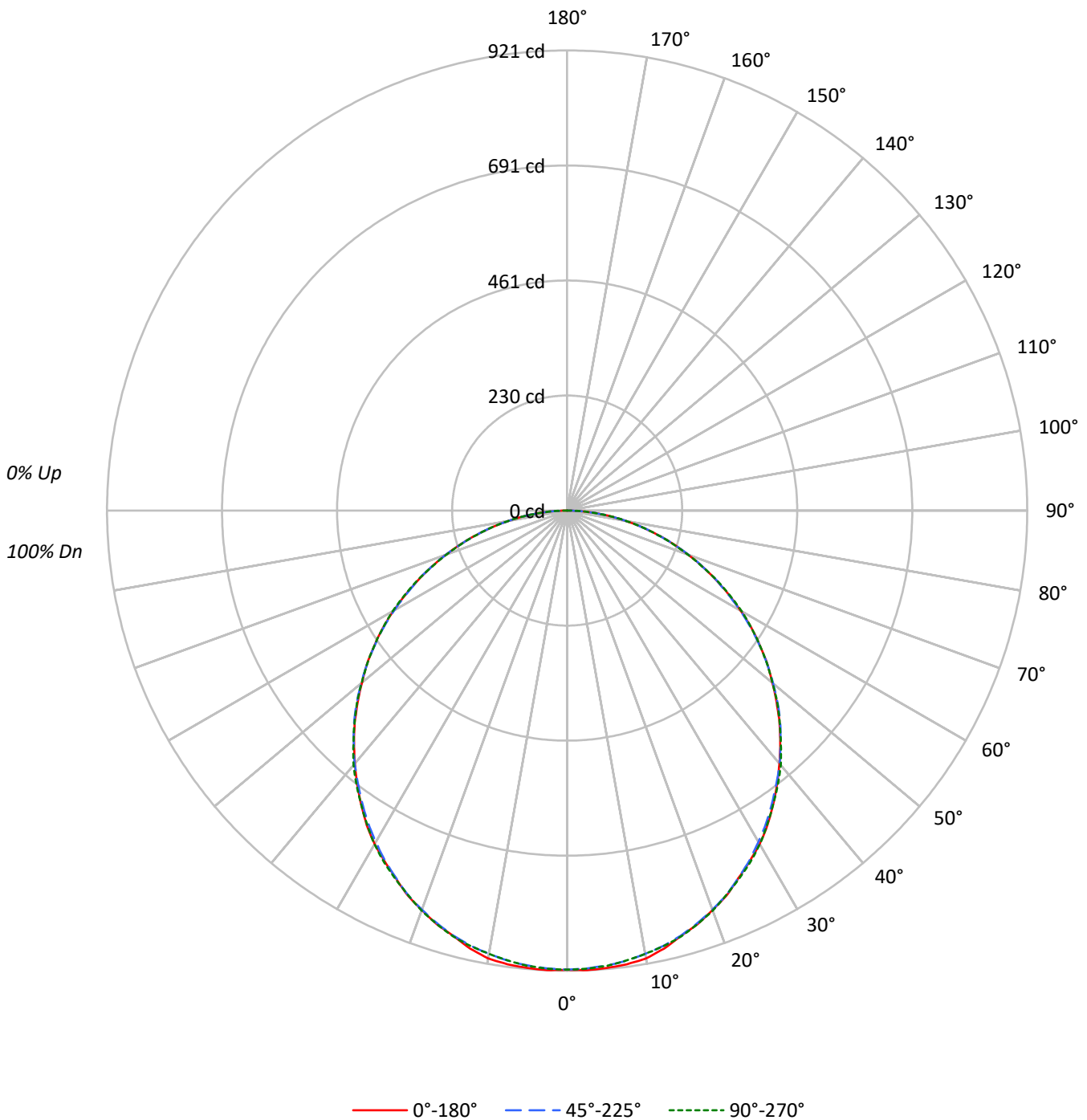
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1236	1236	1236
5°	1241	1234	1235
10°	1244	1231	1231
15°	1227	1226	1229
20°	1218	1217	1220
25°	1205	1204	1208
30°	1197	1190	1198
35°	1180	1174	1180
40°	1161	1162	1169
45°	1144	1148	1145
50°	1123	1127	1124
55°	1105	1103	1105
60°	1080	1076	1086
65°	1046	1050	1054
70°	1012	1017	1010
75°	977	977	977
80°	922	922	932
85°	852	861	832



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	3.3
10°-20°	248.4	9.4
20°-30°	374.3	14.2
30°-40°	448.3	17.1
40°-50°	464.1	17.7
50°-60°	420.8	16.0
60°-70°	326.2	12.4
70°-80°	198.4	7.5
80°-90°	61.7	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°	709.6	27.0
0°-40°	1157.9	44.0
0°-60°	2042.7	77.7
0°-90°	2629.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	919	913	914	913	914	87
15°	881	882	880	877	882	249
25°	812	812	811	814	814	375
35°	719	714	715	718	719	450
45°	601	603	603	601	602	463
55°	471	469	470	472	471	421
65°	329	330	330	329	331	326
75°	188	187	188	187	188	198
85°	55	55	56	55	54	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.9	918.9	918.9	918.9	918.9
2.5°	920.7	917.0	917.0	915.8	917.6
5°	918.9	913.3	913.9	912.7	914.5
7.5°	915.8	908.3	908.9	907.7	908.3
10°	910.2	901.5	900.9	900.3	900.9
12.5°	897.8	892.8	892.2	891.0	892.8
15°	881.0	881.7	880.4	877.3	882.3
17.5°	868.0	867.4	866.2	863.1	868.0
20°	850.7	851.3	850.0	848.8	851.9
22.5°	833.9	832.1	832.7	832.1	832.7
25°	811.6	811.6	811.0	813.5	813.5
27.5°	791.1	788.7	789.9	792.4	793.6
30°	770.7	764.5	765.7	768.2	771.3
32.5°	746.5	740.3	741.5	744.0	745.3
35°	718.6	713.6	714.9	718.0	718.6
37.5°	690.1	687.0	688.2	690.7	692.6
40°	660.9	659.7	661.6	660.9	665.3
42.5°	631.2	630.6	632.4	632.4	633.0
45°	601.4	602.7	603.3	600.8	602.0
47.5°	568.6	569.2	571.7	570.4	571.0
50°	536.3	535.7	538.2	538.8	536.9
52.5°	505.3	502.2	504.7	505.9	504.7
55°	471.2	468.7	470.0	471.8	471.2
57.5°	437.7	435.3	435.9	439.0	437.7
60°	401.2	400.5	399.9	402.4	403.6
62.5°	365.2	364.6	363.3	365.8	367.1
65°	328.6	330.5	329.8	328.6	331.1
67.5°	293.9	295.7	293.9	292.6	292.6
70°	257.3	259.2	258.5	257.3	256.7
72.5°	223.2	223.2	222.0	221.3	222.0
75°	187.9	187.2	187.9	187.2	187.9
77.5°	153.1	153.8	153.8	153.8	153.1
80°	119.0	119.0	119.0	119.7	120.3
82.5°	87.4	85.6	87.4	86.2	86.8
85°	55.2	54.6	55.8	55.2	53.9
87.5°	24.8	25.4	25.4	26.0	26.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)