

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: P294368

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294368
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-LD5-42-FGW080-UNV-L92765-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: 2978.0 lumens
Efficiency: N/A
Efficacy: 107.5 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

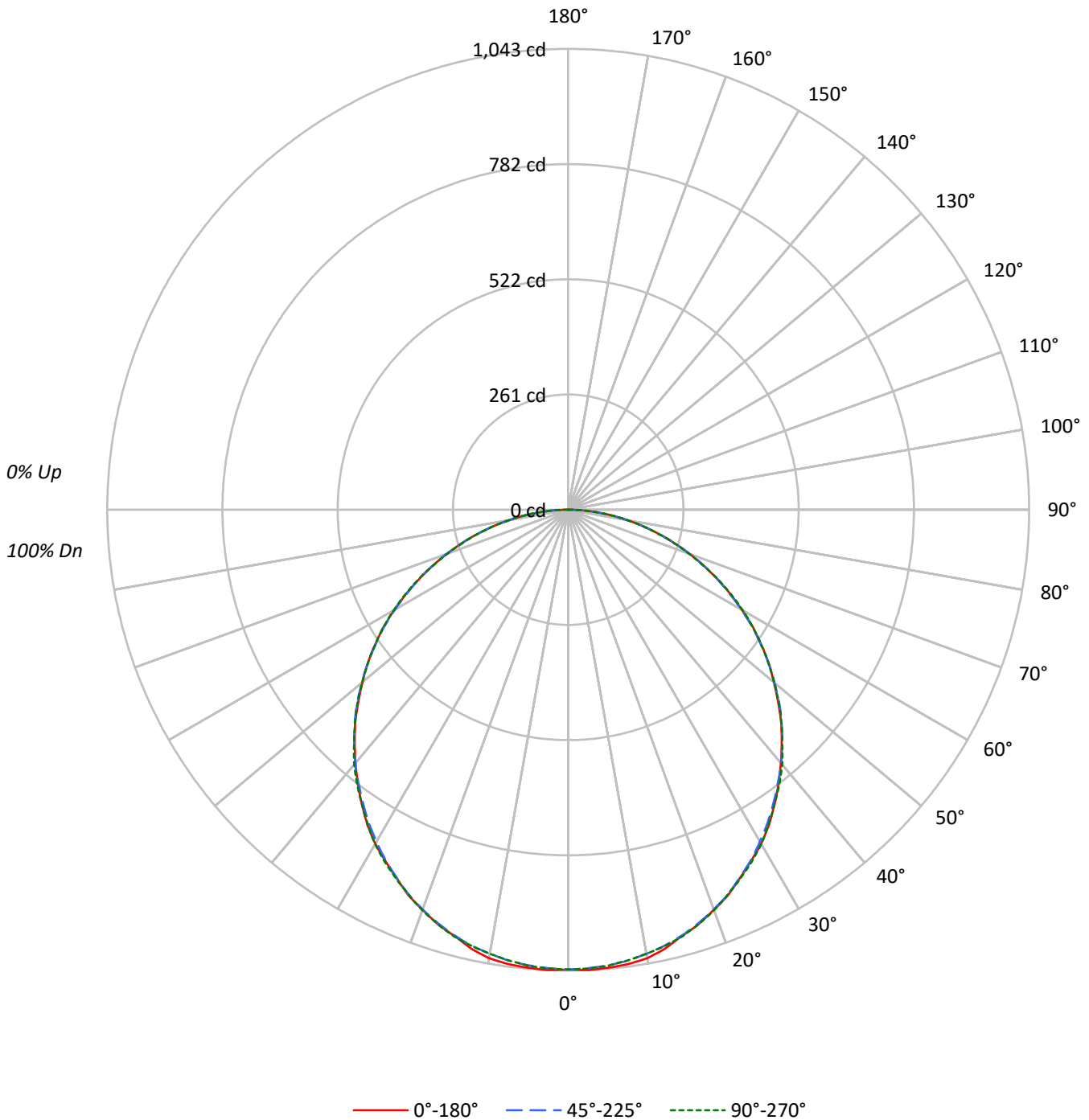
Input Watts (W): 27.714
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1400	1400	1400
5°	1406	1398	1399
10°	1409	1394	1394
15°	1390	1389	1392
20°	1380	1379	1382
25°	1365	1364	1368
30°	1356	1348	1357
35°	1337	1330	1337
40°	1315	1316	1324
45°	1296	1300	1298
50°	1272	1276	1273
55°	1252	1249	1252
60°	1223	1219	1230
65°	1185	1189	1194
70°	1147	1152	1144
75°	1106	1106	1106
80°	1044	1044	1056
85°	965	976	943



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	3.3
10°-20°	281.3	9.4
20°-30°	424.0	14.2
30°-40°	507.8	17.1
40°-50°	525.7	17.7
50°-60°	476.6	16.0
60°-70°	369.5	12.4
70°-80°	224.7	7.5
80°-90°	69.9	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°	803.7	27.0
0°-40°	1311.6	44.0
0°-60°	2313.9	77.7
0°-90°	2978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1041	1041	1041	1041	1041	
5°	1041	1034	1035	1034	1036	99
15°	998	999	997	994	999	282
25°	919	919	919	921	921	424
35°	814	808	810	813	814	509
45°	681	683	683	681	682	525
55°	534	531	532	534	534	477
65°	372	374	374	372	375	369
75°	213	212	213	212	213	225
85°	62	62	63	62	61	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.8	1040.8	1040.8	1040.8	1040.8
2.5°	1043.0	1038.7	1038.7	1037.3	1039.4
5°	1040.8	1034.5	1035.2	1033.8	1035.9
7.5°	1037.3	1028.9	1029.6	1028.2	1028.9
10°	1031.0	1021.2	1020.5	1019.8	1020.5
12.5°	1017.0	1011.3	1010.6	1009.2	1011.3
15°	998.0	998.7	997.3	993.8	999.4
17.5°	983.3	982.6	981.1	977.6	983.3
20°	963.6	964.3	962.9	961.5	965.0
22.5°	944.6	942.5	943.2	942.5	943.2
25°	919.3	919.3	918.6	921.4	921.4
27.5°	896.2	893.4	894.8	897.6	899.0
30°	873.0	866.0	867.4	870.2	873.7
32.5°	845.6	838.6	840.0	842.8	844.2
35°	814.0	808.4	809.8	813.3	814.0
37.5°	781.7	778.2	779.6	782.4	784.5
40°	748.7	747.3	749.4	748.7	753.6
42.5°	715.0	714.3	716.4	716.4	717.1
45°	681.3	682.7	683.4	680.6	682.0
47.5°	644.0	644.7	647.5	646.1	646.8
50°	607.5	606.8	609.6	610.3	608.2
52.5°	572.4	568.9	571.7	573.1	571.7
55°	533.8	531.0	532.4	534.5	533.8
57.5°	495.8	493.0	493.7	497.2	495.8
60°	454.4	453.7	453.0	455.8	457.2
62.5°	413.7	413.0	411.6	414.4	415.8
65°	372.2	374.3	373.6	372.2	375.0
67.5°	332.9	335.0	332.9	331.5	331.5
70°	291.5	293.6	292.9	291.5	290.8
72.5°	252.8	252.8	251.4	250.7	251.4
75°	212.8	212.1	212.8	212.1	212.8
77.5°	173.5	174.2	174.2	174.2	173.5
80°	134.8	134.8	134.8	135.5	136.3
82.5°	99.0	96.9	99.0	97.6	98.3
85°	62.5	61.8	63.2	62.5	61.1
87.5°	28.1	28.8	28.8	29.5	29.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)