

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: P294374

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294374
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3446.0 lumens
Efficiency: N/A
Efficacy: 119.5 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

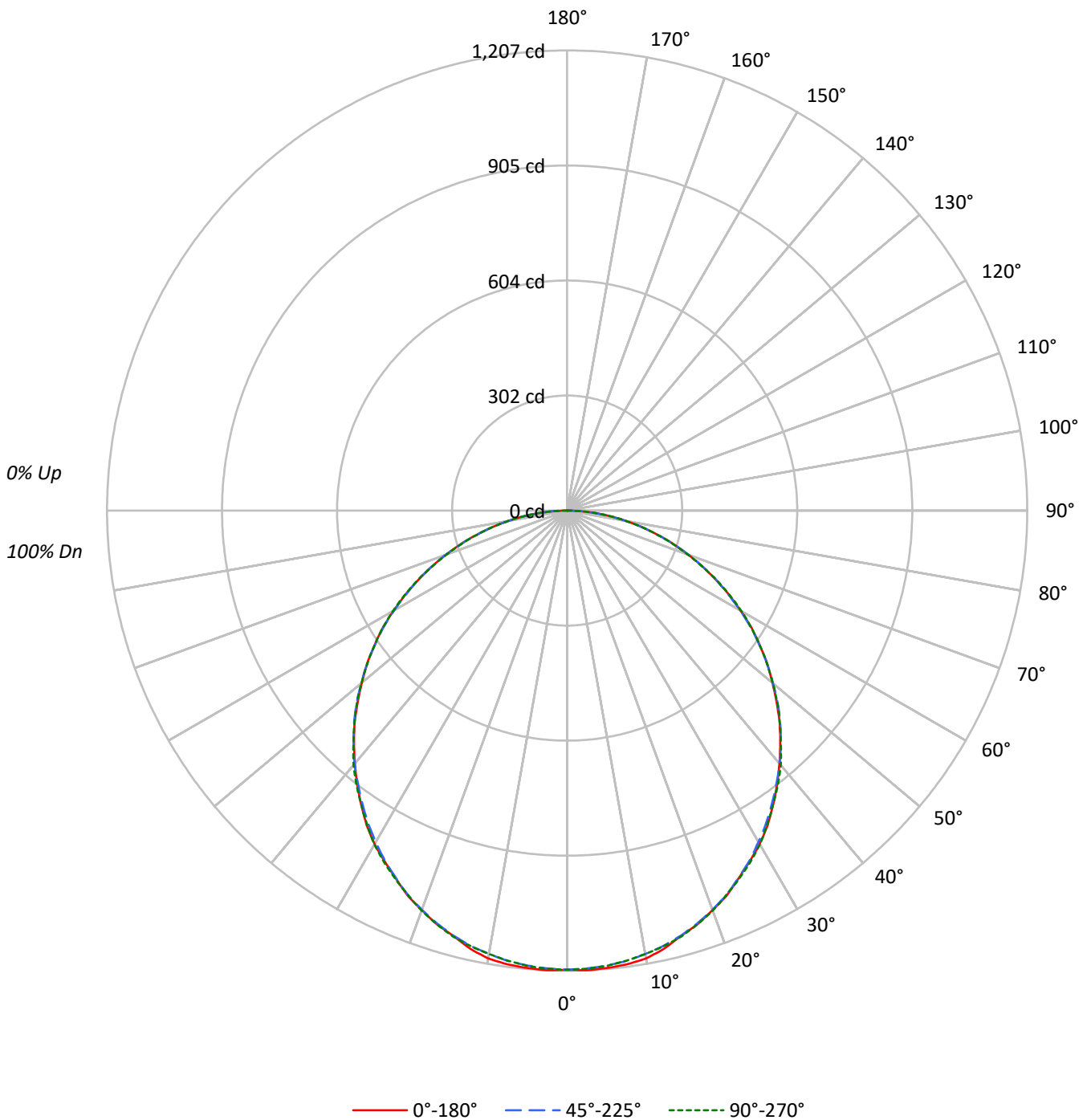
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1621	1621	1621
5°	1627	1618	1619
10°	1630	1613	1613
15°	1609	1607	1611
20°	1597	1595	1599
25°	1579	1578	1583
30°	1569	1559	1571
35°	1547	1539	1547
40°	1522	1523	1532
45°	1500	1505	1502
50°	1472	1477	1473
55°	1449	1445	1449
60°	1415	1411	1424
65°	1371	1377	1382
70°	1327	1333	1324
75°	1280	1280	1280
80°	1209	1209	1222
85°	1116	1129	1091



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	3.3
10°-20°	325.6	9.4
20°-30°	490.6	14.2
30°-40°	587.6	17.1
40°-50°	608.3	17.7
50°-60°	551.5	16.0
60°-70°	427.6	12.4
70°-80°	260.0	7.5
80°-90°	80.9	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°	930.1	27.0
0°-40°	1517.7	44.0
0°-60°	2677.5	77.7
0°-90°	3446.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1204	1204	1204	1204	1204	
5°	1204	1197	1198	1196	1199	115
15°	1155	1156	1154	1150	1156	327
25°	1064	1064	1063	1066	1066	491
35°	942	935	937	941	942	589
45°	788	790	791	788	789	607
55°	618	614	616	618	618	552
65°	431	433	432	431	434	427
75°	246	245	246	245	246	260
85°	72	72	73	72	71	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.4	1204.4	1204.4	1204.4	1204.4
2.5°	1206.9	1202.0	1202.0	1200.4	1202.8
5°	1204.4	1197.1	1197.9	1196.3	1198.7
7.5°	1200.4	1190.6	1191.4	1189.8	1190.6
10°	1193.0	1181.7	1180.8	1180.0	1180.8
12.5°	1176.8	1170.3	1169.5	1167.8	1170.3
15°	1154.8	1155.7	1154.0	1150.0	1156.5
17.5°	1137.8	1137.0	1135.3	1131.3	1137.8
20°	1115.0	1115.8	1114.2	1112.6	1116.6
22.5°	1093.1	1090.6	1091.5	1090.6	1091.5
25°	1063.8	1063.8	1063.0	1066.3	1066.3
27.5°	1037.0	1033.8	1035.4	1038.6	1040.3
30°	1010.2	1002.1	1003.7	1006.9	1011.0
32.5°	978.5	970.4	972.0	975.2	976.9
35°	941.9	935.4	937.0	941.1	941.9
37.5°	904.5	900.5	902.1	905.3	907.8
40°	866.3	864.7	867.1	866.3	872.0
42.5°	827.3	826.5	829.0	829.0	829.8
45°	788.3	789.9	790.8	787.5	789.1
47.5°	745.2	746.1	749.3	747.7	748.5
50°	703.0	702.2	705.4	706.2	703.8
52.5°	662.3	658.3	661.5	663.2	661.5
55°	617.6	614.4	616.0	618.5	617.6
57.5°	573.8	570.5	571.3	575.4	573.8
60°	525.8	525.0	524.2	527.4	529.1
62.5°	478.7	477.9	476.2	479.5	481.1
65°	430.7	433.2	432.4	430.7	434.0
67.5°	385.2	387.7	385.2	383.6	383.6
70°	337.3	339.7	338.9	337.3	336.5
72.5°	292.6	292.6	290.9	290.1	290.9
75°	246.2	245.4	246.2	245.4	246.2
77.5°	200.7	201.5	201.5	201.5	200.7
80°	156.0	156.0	156.0	156.9	157.7
82.5°	114.6	112.2	114.6	113.0	113.8
85°	72.3	71.5	73.1	72.3	70.7
87.5°	32.5	33.3	33.3	34.1	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)