

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: P294376

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294376
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-LD5-48-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: 3313.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

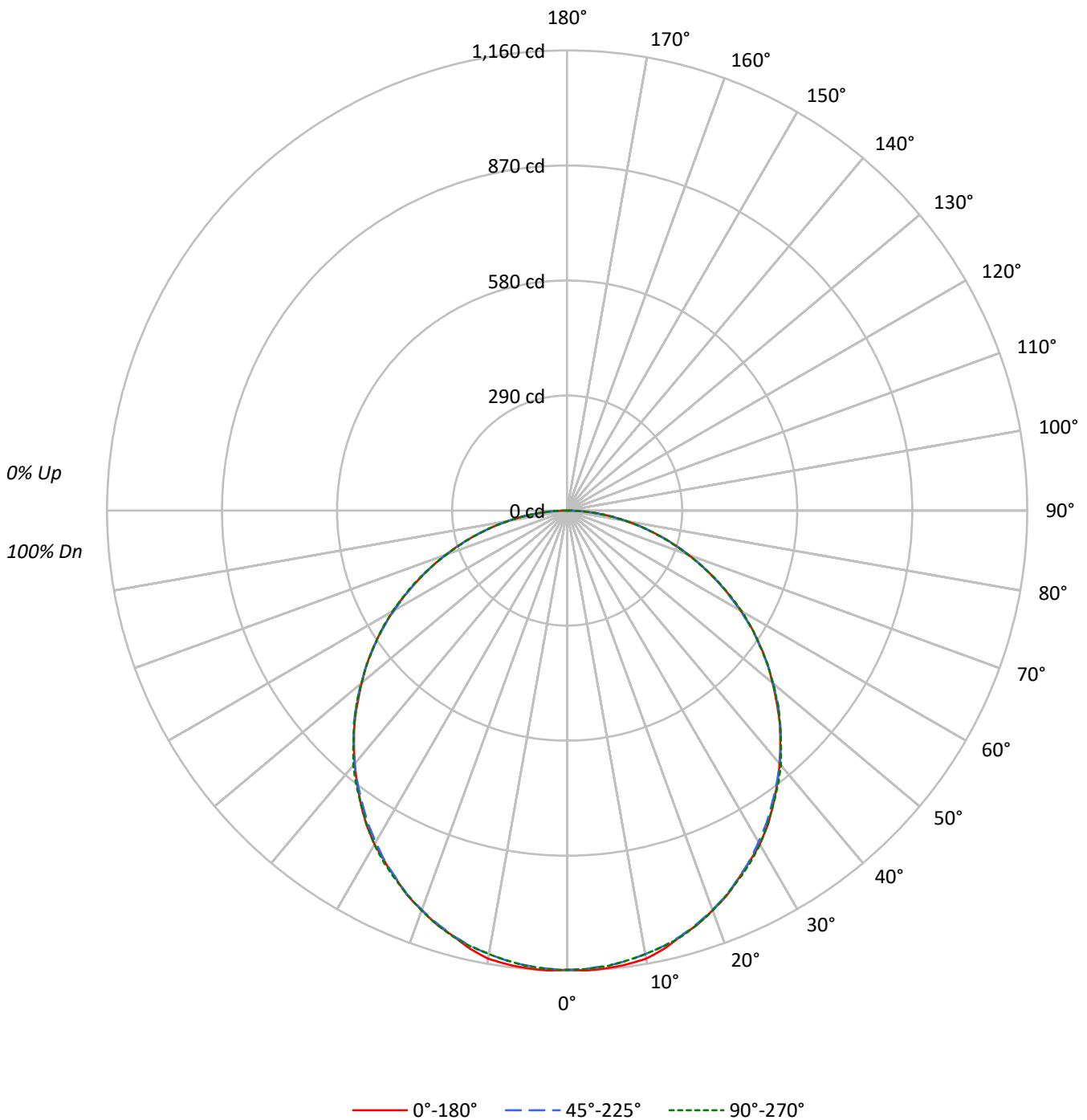
Input Watts (W): 32.736
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1558	1558	1558
5°	1564	1556	1557
10°	1567	1551	1551
15°	1547	1545	1549
20°	1535	1534	1537
25°	1518	1517	1522
30°	1509	1499	1510
35°	1487	1480	1487
40°	1463	1464	1473
45°	1442	1447	1444
50°	1415	1420	1416
55°	1393	1389	1393
60°	1360	1356	1369
65°	1318	1323	1328
70°	1276	1282	1273
75°	1231	1231	1231
80°	1162	1162	1175
85°	1073	1085	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.5	3.3
10°-20°	313.0	9.4
20°-30°	471.7	14.2
30°-40°	564.9	17.1
40°-50°	584.8	17.7
50°-60°	530.2	16.0
60°-70°	411.1	12.4
70°-80°	250.0	7.5
80°-90°	77.8	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°	894.2	27.0
0°-40°	1459.1	44.0
0°-60°	2574.2	77.7
0°-90°	3313.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3313.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1158	1158	1158	1158	1158	
5°	1158	1151	1152	1150	1152	110
15°	1110	1111	1110	1106	1112	314
25°	1023	1023	1022	1025	1025	472
35°	906	899	901	905	906	566
45°	758	760	760	757	759	584
55°	594	591	592	595	594	531
65°	414	416	416	414	417	411
75°	237	236	237	236	237	250
85°	70	69	70	70	68	78
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1157.9	1157.9	1157.9	1157.9	1157.9
2.5°	1160.3	1155.6	1155.6	1154.0	1156.4
5°	1157.9	1150.9	1151.7	1150.1	1152.5
7.5°	1154.0	1144.6	1145.4	1143.9	1144.6
10°	1147.0	1136.1	1135.3	1134.5	1135.3
12.5°	1131.4	1125.1	1124.3	1122.8	1125.1
15°	1110.3	1111.1	1109.5	1105.6	1111.8
17.5°	1093.9	1093.1	1091.5	1087.6	1093.9
20°	1072.0	1072.8	1071.2	1069.6	1073.5
22.5°	1050.9	1048.5	1049.3	1048.5	1049.3
25°	1022.8	1022.8	1022.0	1025.1	1025.1
27.5°	997.0	993.9	995.4	998.5	1000.1
30°	971.2	963.4	964.9	968.1	972.0
32.5°	940.7	932.9	934.5	937.6	939.2
35°	905.6	899.3	900.9	904.8	905.6
37.5°	869.6	865.7	867.3	870.4	872.7
40°	832.9	831.3	833.7	832.9	838.4
42.5°	795.4	794.6	797.0	797.0	797.7
45°	757.9	759.5	760.2	757.1	758.7
47.5°	716.5	717.3	720.4	718.8	719.6
50°	675.9	675.1	678.2	679.0	676.6
52.5°	636.8	632.9	636.0	637.6	636.0
55°	593.8	590.7	592.2	594.6	593.8
57.5°	551.6	548.5	549.3	553.2	551.6
60°	505.5	504.7	504.0	507.1	508.6
62.5°	460.2	459.4	457.9	461.0	462.5
65°	414.1	416.4	415.7	414.1	417.2
67.5°	370.4	372.7	370.4	368.8	368.8
70°	324.3	326.6	325.8	324.3	323.5
72.5°	281.3	281.3	279.7	278.9	279.7
75°	236.7	236.0	236.7	236.0	236.7
77.5°	193.0	193.8	193.8	193.8	193.0
80°	150.0	150.0	150.0	150.8	151.6
82.5°	110.2	107.8	110.2	108.6	109.4
85°	69.5	68.8	70.3	69.5	68.0
87.5°	31.3	32.0	32.0	32.8	32.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)