

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: P294316

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294316
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-L93050-W2A1-U-3500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3594.0 lumens
Efficiency: N/A
Efficacy: 107.4 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

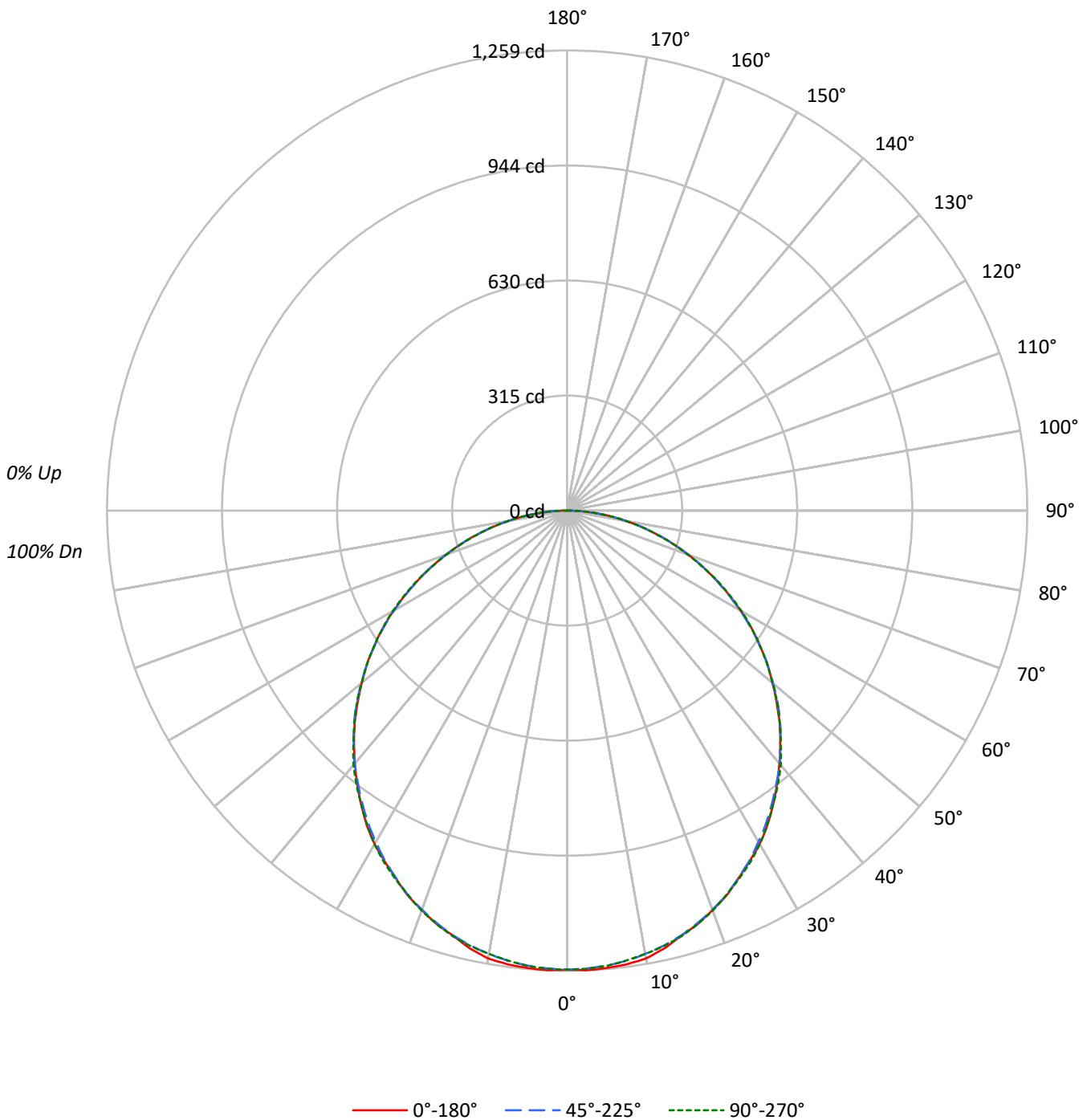
Input Watts (W): 33.452751
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1690	1690	1690
5°	1697	1687	1689
10°	1700	1683	1683
15°	1678	1677	1680
20°	1665	1664	1668
25°	1647	1646	1651
30°	1637	1626	1638
35°	1614	1605	1614
40°	1587	1588	1597
45°	1564	1569	1566
50°	1535	1540	1536
55°	1511	1507	1511
60°	1476	1471	1485
65°	1430	1436	1441
70°	1384	1390	1380
75°	1335	1335	1335
80°	1261	1261	1274
85°	1164	1178	1138



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.8	3.3
10°-20°	339.5	9.4
20°-30°	511.7	14.2
30°-40°	612.9	17.1
40°-50°	634.4	17.7
50°-60°	575.2	16.0
60°-70°	446.0	12.4
70°-80°	271.2	7.5
80°-90°	84.4	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°	970.0	27.0
0°-40°	1582.9	44.0
0°-60°	2792.5	77.7
0°-90°	3594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1256	1256	1256	1256	1256	
5°	1256	1248	1249	1248	1250	120
15°	1204	1205	1204	1199	1206	341
25°	1110	1110	1109	1112	1112	512
35°	982	976	977	982	982	615
45°	822	824	825	821	823	633
55°	644	641	642	645	644	576
65°	449	452	451	449	453	446
75°	257	256	257	256	257	271
85°	75	75	76	75	74	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1256.1	1256.1	1256.1	1256.1	1256.1
2.5°	1258.7	1253.6	1253.6	1251.9	1254.4
5°	1256.1	1248.5	1249.4	1247.7	1250.2
7.5°	1251.9	1241.7	1242.6	1240.9	1241.7
10°	1244.3	1232.4	1231.6	1230.7	1231.6
12.5°	1227.3	1220.5	1219.7	1218.0	1220.5
15°	1204.4	1205.3	1203.6	1199.4	1206.1
17.5°	1186.6	1185.8	1184.1	1179.9	1186.6
20°	1162.9	1163.8	1162.1	1160.4	1164.6
22.5°	1140.0	1137.5	1138.3	1137.5	1138.3
25°	1109.5	1109.5	1108.7	1112.1	1112.1
27.5°	1081.5	1078.1	1079.8	1083.2	1084.9
30°	1053.6	1045.1	1046.8	1050.2	1054.4
32.5°	1020.5	1012.0	1013.7	1017.1	1018.8
35°	982.4	975.6	977.3	981.5	982.4
37.5°	943.4	939.1	940.8	944.2	946.8
40°	903.5	901.8	904.4	903.5	909.5
42.5°	862.9	862.0	864.6	864.6	865.4
45°	822.2	823.9	824.7	821.3	823.0
47.5°	777.2	778.1	781.5	779.8	780.6
50°	733.2	732.3	735.7	736.6	734.0
52.5°	690.8	686.6	689.9	691.6	689.9
55°	644.2	640.8	642.5	645.0	644.2
57.5°	598.4	595.0	595.9	600.1	598.4
60°	548.4	547.6	546.7	550.1	551.8
62.5°	499.2	498.4	496.7	500.1	501.8
65°	449.2	451.8	450.9	449.2	452.6
67.5°	401.8	404.3	401.8	400.1	400.1
70°	351.8	354.3	353.4	351.8	350.9
72.5°	305.1	305.1	303.4	302.6	303.4
75°	256.8	256.0	256.8	256.0	256.8
77.5°	209.4	210.2	210.2	210.2	209.4
80°	162.7	162.7	162.7	163.6	164.4
82.5°	119.5	117.0	119.5	117.8	118.7
85°	75.4	74.6	76.3	75.4	73.7
87.5°	33.9	34.8	34.8	35.6	35.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)