

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: P294315

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L93050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294315
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-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: 3290.0 lumens
Efficiency: N/A
Efficacy: 98.0 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

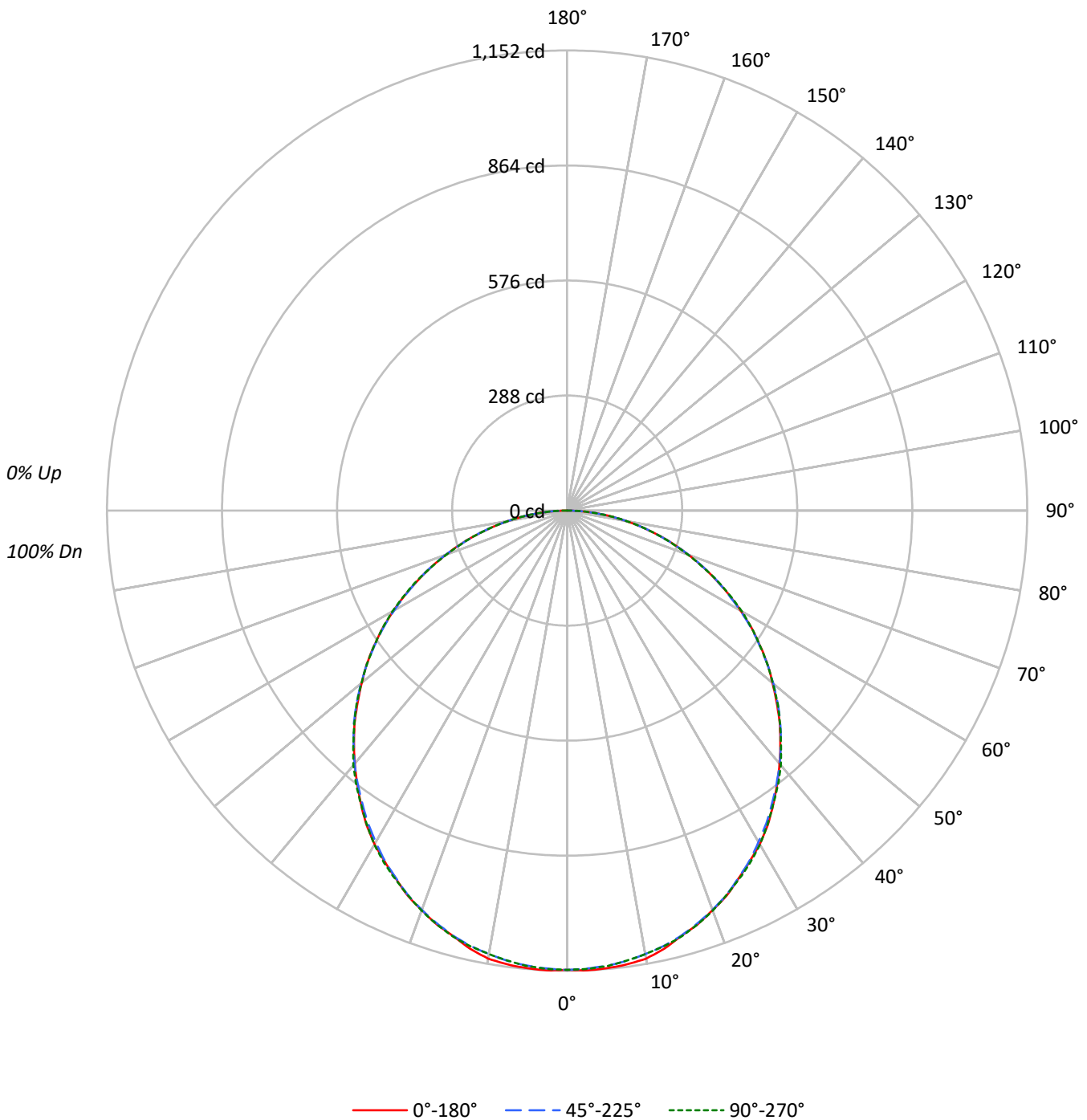
Input Watts (W): 33.584067
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1547	1547	1547
5°	1553	1545	1546
10°	1556	1540	1540
15°	1536	1535	1538
20°	1524	1523	1526
25°	1508	1507	1511
30°	1498	1489	1500
35°	1477	1469	1477
40°	1453	1454	1462
45°	1432	1437	1434
50°	1405	1410	1406
55°	1383	1380	1383
60°	1351	1347	1359
65°	1309	1314	1319
70°	1267	1273	1264
75°	1222	1222	1222
80°	1155	1155	1166
85°	1067	1078	1042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.7	3.3
10°-20°	310.8	9.4
20°-30°	468.4	14.2
30°-40°	561.0	17.1
40°-50°	580.7	17.7
50°-60°	526.6	16.0
60°-70°	408.2	12.4
70°-80°	248.3	7.5
80°-90°	77.2	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°	888.0	27.0
0°-40°	1449.0	44.0
0°-60°	2556.3	77.7
0°-90°	3290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1150	1143	1144	1142	1144	109
15°	1103	1103	1102	1098	1104	312
25°	1016	1016	1015	1018	1018	469
35°	899	893	895	898	899	563
45°	753	754	755	752	753	580
55°	590	587	588	590	590	527
65°	411	414	413	411	414	408
75°	235	234	235	234	235	248
85°	69	68	70	69	68	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1149.9	1149.9	1149.9	1149.9	1149.9
2.5°	1152.2	1147.6	1147.6	1146.0	1148.3
5°	1149.9	1142.9	1143.7	1142.1	1144.5
7.5°	1146.0	1136.7	1137.5	1135.9	1136.7
10°	1139.0	1128.2	1127.4	1126.6	1127.4
12.5°	1123.5	1117.3	1116.5	1115.0	1117.3
15°	1102.6	1103.3	1101.8	1097.9	1104.1
17.5°	1086.3	1085.5	1083.9	1080.1	1086.3
20°	1064.5	1065.3	1063.8	1062.2	1066.1
22.5°	1043.6	1041.3	1042.0	1041.3	1042.0
25°	1015.7	1015.7	1014.9	1018.0	1018.0
27.5°	990.1	987.0	988.5	991.6	993.2
30°	964.5	956.7	958.2	961.3	965.2
32.5°	934.2	926.4	928.0	931.1	932.6
35°	899.3	893.1	894.6	898.5	899.3
37.5°	863.6	859.7	861.3	864.4	866.7
40°	827.1	825.6	827.9	827.1	832.5
42.5°	789.9	789.1	791.4	791.4	792.2
45°	752.6	754.2	755.0	751.9	753.4
47.5°	711.5	712.3	715.4	713.8	714.6
50°	671.2	670.4	673.5	674.3	671.9
52.5°	632.4	628.5	631.6	633.1	631.6
55°	589.7	586.6	588.1	590.5	589.7
57.5°	547.8	544.7	545.5	549.3	547.8
60°	502.0	501.2	500.5	503.6	505.1
62.5°	457.0	456.2	454.7	457.8	459.3
65°	411.2	413.6	412.8	411.2	414.3
67.5°	367.8	370.1	367.8	366.2	366.2
70°	322.0	324.3	323.6	322.0	321.2
72.5°	279.3	279.3	277.8	277.0	277.8
75°	235.1	234.3	235.1	234.3	235.1
77.5°	191.6	192.4	192.4	192.4	191.6
80°	149.0	149.0	149.0	149.7	150.5
82.5°	109.4	107.1	109.4	107.9	108.6
85°	69.1	68.3	69.8	69.1	67.5
87.5°	31.0	31.8	31.8	32.6	32.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)