

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: P294373

Luminaire Tested: **24GR-LD5-42-FGW080-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294373
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3431.0 lumens
Efficiency: N/A
Efficacy: 119.4 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

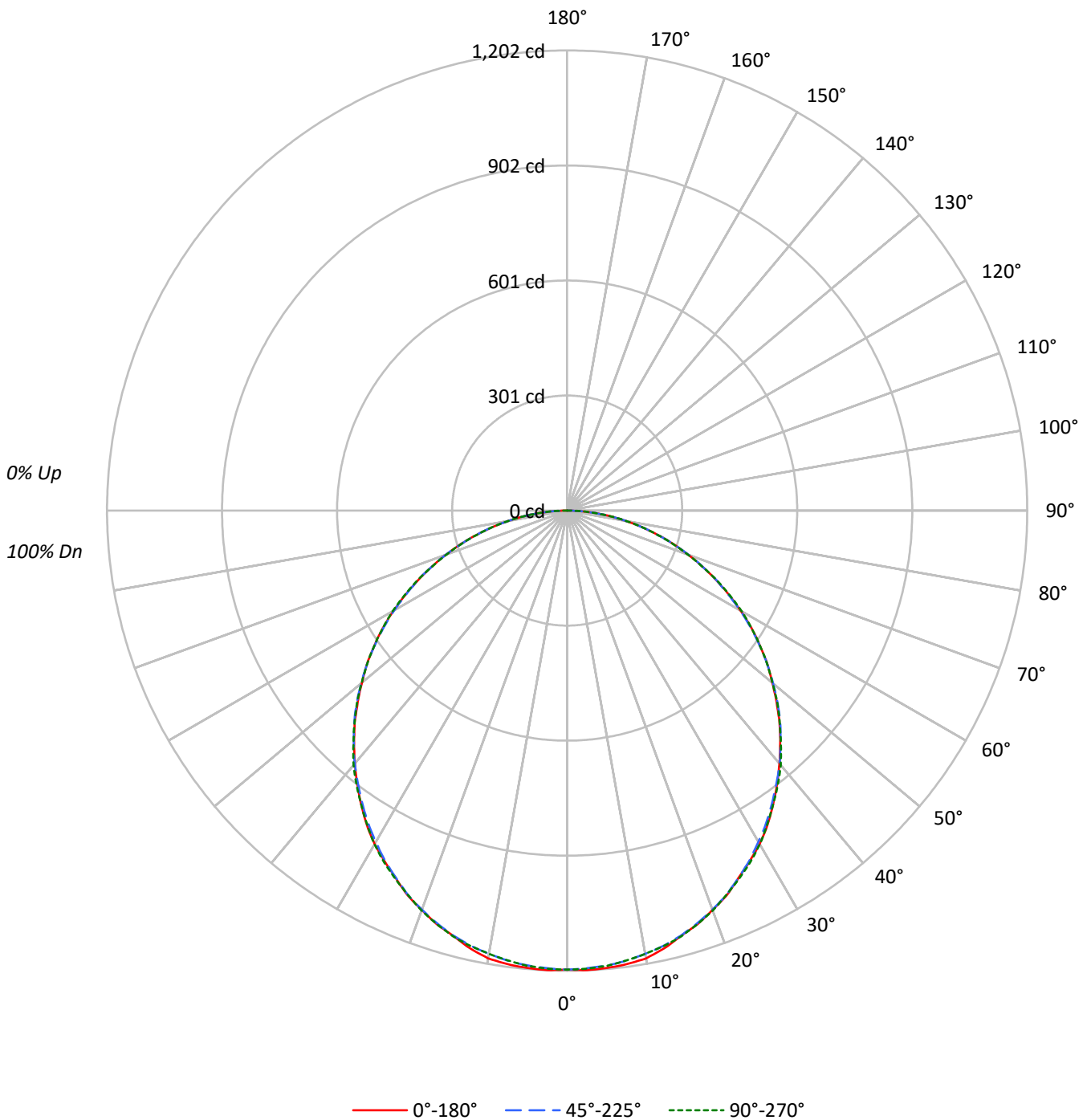
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1614	1614	1614
5°	1620	1611	1612
10°	1623	1606	1606
15°	1602	1601	1604
20°	1590	1588	1592
25°	1572	1571	1576
30°	1563	1553	1564
35°	1540	1532	1540
40°	1515	1516	1525
45°	1494	1498	1495
50°	1465	1470	1467
55°	1443	1439	1443
60°	1409	1404	1418
65°	1365	1371	1376
70°	1321	1327	1318
75°	1275	1275	1275
80°	1204	1204	1216
85°	1112	1124	1087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.3
10°-20°	324.1	9.4
20°-30°	488.5	14.2
30°-40°	585.1	17.1
40°-50°	605.6	17.7
50°-60°	549.1	16.0
60°-70°	425.7	12.4
70°-80°	258.9	7.5
80°-90°	80.6	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°	926.0	27.0
0°-40°	1511.1	44.0
0°-60°	2665.8	77.7
0°-90°	3431.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3431.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1199	1192	1193	1191	1194	114
15°	1150	1151	1149	1145	1151	325
25°	1059	1059	1058	1062	1062	489
35°	938	931	933	937	938	587
45°	785	786	787	784	786	605
55°	615	612	613	616	615	550
65°	429	431	430	429	432	425
75°	245	244	245	244	245	259
85°	72	71	73	72	70	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1199.2	1199.2	1199.2	1199.2	1199.2
2.5°	1201.6	1196.7	1196.7	1195.1	1197.6
5°	1199.2	1191.9	1192.7	1191.1	1193.5
7.5°	1195.1	1185.4	1186.2	1184.6	1185.4
10°	1187.8	1176.5	1175.7	1174.9	1175.7
12.5°	1171.7	1165.2	1164.4	1162.8	1165.2
15°	1149.8	1150.6	1149.0	1145.0	1151.4
17.5°	1132.8	1132.0	1130.4	1126.3	1132.8
20°	1110.2	1111.0	1109.4	1107.7	1111.8
22.5°	1088.3	1085.9	1086.7	1085.9	1086.7
25°	1059.2	1059.2	1058.4	1061.6	1061.6
27.5°	1032.5	1029.3	1030.9	1034.1	1035.7
30°	1005.8	997.7	999.3	1002.5	1006.6
32.5°	974.2	966.1	967.8	971.0	972.6
35°	937.8	931.3	933.0	937.0	937.8
37.5°	900.6	896.5	898.2	901.4	903.8
40°	862.6	860.9	863.4	862.6	868.2
42.5°	823.7	822.9	825.3	825.3	826.2
45°	784.9	786.5	787.3	784.1	785.7
47.5°	742.0	742.8	746.0	744.4	745.2
50°	699.9	699.1	702.4	703.2	700.7
52.5°	659.5	655.4	658.7	660.3	658.7
55°	615.0	611.7	613.3	615.8	615.0
57.5°	571.3	568.0	568.8	572.9	571.3
60°	523.5	522.7	521.9	525.1	526.8
62.5°	476.6	475.8	474.2	477.4	479.0
65°	428.9	431.3	430.5	428.9	432.1
67.5°	383.5	386.0	383.5	381.9	381.9
70°	335.8	338.2	337.4	335.8	335.0
72.5°	291.3	291.3	289.7	288.9	289.7
75°	245.2	244.4	245.2	244.4	245.2
77.5°	199.9	200.7	200.7	200.7	199.9
80°	155.4	155.4	155.4	156.2	157.0
82.5°	114.1	111.7	114.1	112.5	113.3
85°	72.0	71.2	72.8	72.0	70.4
87.5°	32.4	33.2	33.2	34.0	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)