

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: P294256

Luminaire Tested: **24GR-LD5-48-FGW080-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294256
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-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH FGW080 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4396.0 lumens
Efficiency: N/A
Efficacy: 130.2 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

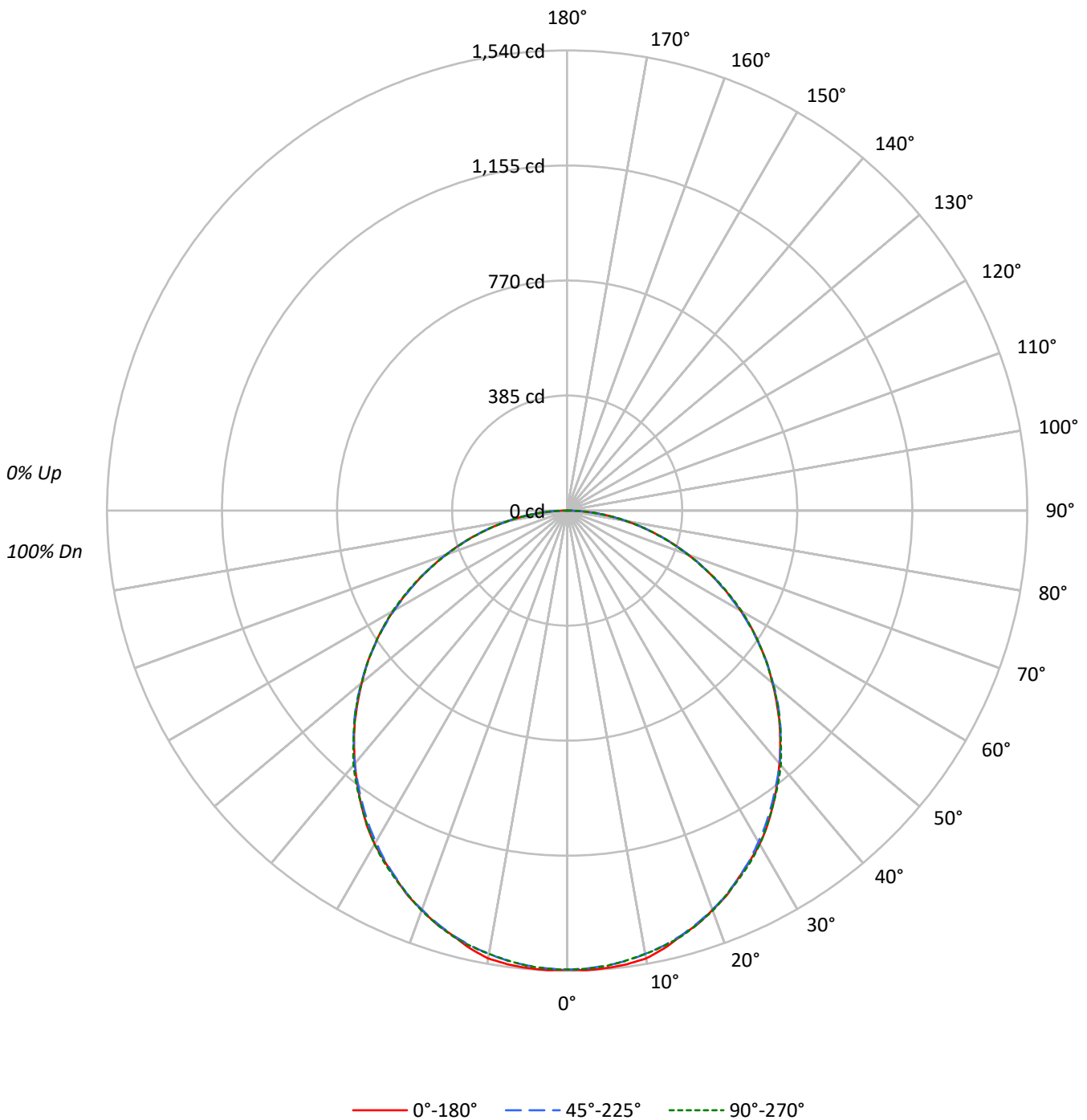
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2067	2067	2067
5°	2075	2064	2065
10°	2079	2058	2058
15°	2052	2051	2055
20°	2037	2035	2040
25°	2015	2013	2019
30°	2002	1989	2004
35°	1974	1963	1974
40°	1941	1943	1954
45°	1913	1920	1916
50°	1877	1884	1879
55°	1848	1844	1848
60°	1805	1799	1816
65°	1749	1756	1762
70°	1692	1701	1688
75°	1633	1633	1633
80°	1543	1543	1558
85°	1425	1440	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	3.3
10°-20°	415.3	9.4
20°-30°	625.9	14.2
30°-40°	749.6	17.1
40°-50°	776.0	17.7
50°-60°	703.6	16.0
60°-70°	545.5	12.4
70°-80°	331.7	7.5
80°-90°	103.2	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°	1186.5	27.0
0°-40°	1936.1	44.0
0°-60°	3415.6	77.7
0°-90°	4396.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1536	1536	1536	1536	1536	
5°	1536	1527	1528	1526	1529	146
15°	1473	1474	1472	1467	1475	417
25°	1357	1357	1356	1360	1360	626
35°	1202	1193	1195	1200	1202	752
45°	1006	1008	1009	1005	1007	775
55°	788	784	786	789	788	704
65°	550	553	552	550	554	545
75°	314	313	314	313	314	332
85°	92	91	93	92	90	103
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1536.5	1536.5	1536.5	1536.5	1536.5
2.5°	1539.6	1533.3	1533.3	1531.3	1534.4
5°	1536.5	1527.1	1528.2	1526.1	1529.2
7.5°	1531.3	1518.8	1519.9	1517.8	1518.8
10°	1521.9	1507.4	1506.4	1505.4	1506.4
12.5°	1501.2	1492.9	1491.9	1489.8	1492.9
15°	1473.2	1474.2	1472.2	1467.0	1475.3
17.5°	1451.4	1450.4	1448.3	1443.1	1451.4
20°	1422.4	1423.4	1421.4	1419.3	1424.5
22.5°	1394.4	1391.3	1392.3	1391.3	1392.3
25°	1357.1	1357.1	1356.1	1360.2	1360.2
27.5°	1322.9	1318.7	1320.8	1325.0	1327.0
30°	1288.7	1278.3	1280.4	1284.5	1289.7
32.5°	1248.2	1237.9	1239.9	1244.1	1246.2
35°	1201.6	1193.3	1195.4	1200.5	1201.6
37.5°	1153.9	1148.7	1150.8	1154.9	1158.0
40°	1105.2	1103.1	1106.2	1105.2	1112.4
42.5°	1055.4	1054.4	1057.5	1057.5	1058.5
45°	1005.6	1007.7	1008.8	1004.6	1006.7
47.5°	950.7	951.7	955.9	953.8	954.8
50°	896.8	895.7	899.9	900.9	897.8
52.5°	844.9	839.8	843.9	846.0	843.9
55°	787.9	783.8	785.9	789.0	787.9
57.5°	731.9	727.8	728.8	734.0	731.9
60°	670.8	669.7	668.7	672.8	674.9
62.5°	610.6	609.6	607.5	611.7	613.8
65°	549.5	552.6	551.5	549.5	553.6
67.5°	491.4	494.5	491.4	489.3	489.3
70°	430.2	433.4	432.3	430.2	429.2
72.5°	373.2	373.2	371.2	370.1	371.2
75°	314.1	313.1	314.1	313.1	314.1
77.5°	256.1	257.1	257.1	257.1	256.1
80°	199.1	199.1	199.1	200.1	201.1
82.5°	146.2	143.1	146.2	144.1	145.1
85°	92.3	91.2	93.3	92.3	90.2
87.5°	41.5	42.5	42.5	43.5	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)