

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: P292993

Luminaire Tested: **24GR-LD5-48-F1-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292993
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-12)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-F1-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4840.0 lumens
Efficiency: N/A
Efficacy: 145.8 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.18 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

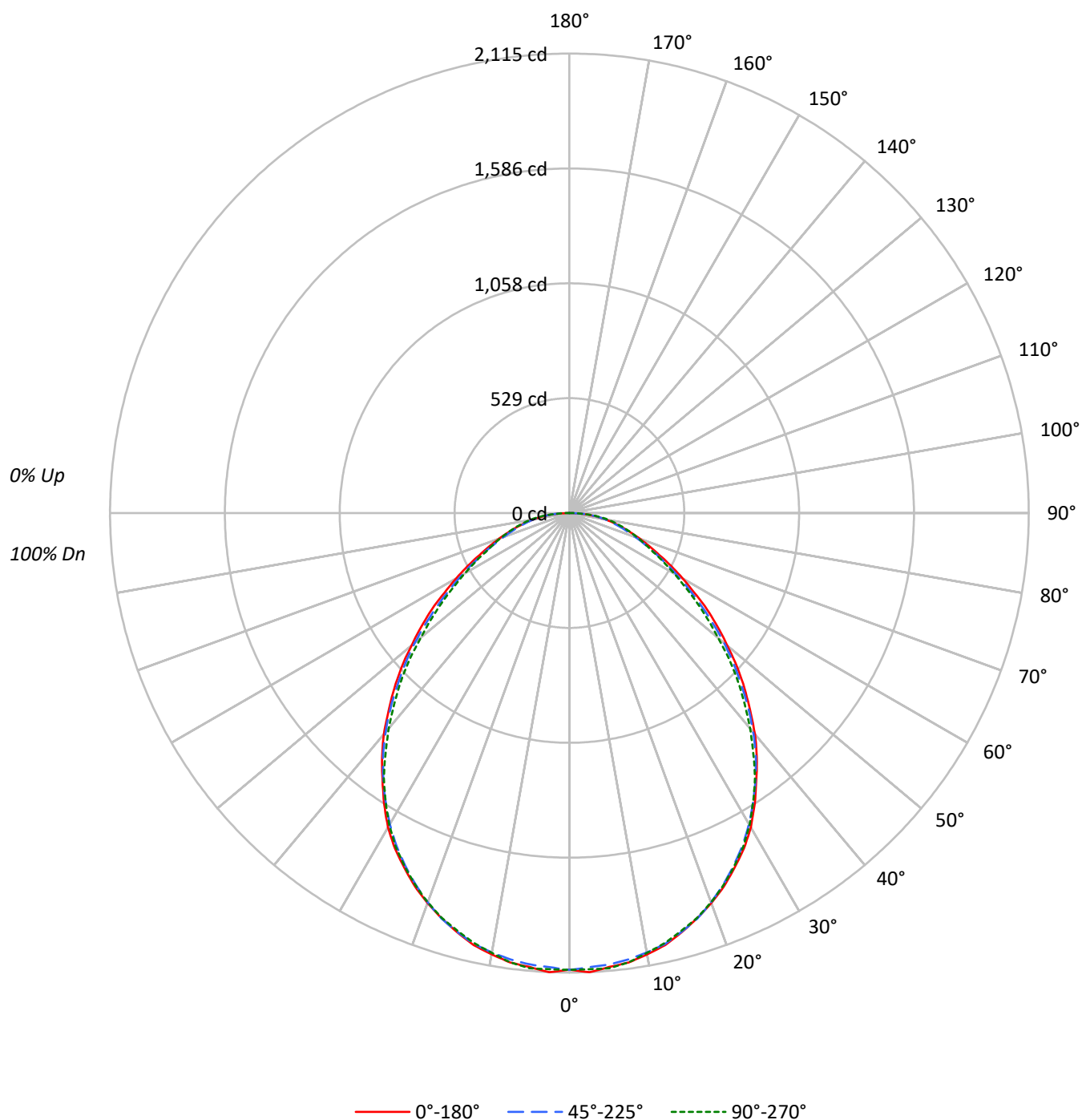
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81
3	92	82	74	68	90	81	73	68	78	72	67		75	70	65		72
4	85	73	65	59	83	72	64	58	70	63	58		67	62	57		65
5	78	66	58	51	76	65	57	51	63	56	50		61	55	50		59
6	73	60	51	45	71	59	51	45	57	50	45		56	49	44		54
7	68	55	46	40	66	54	46	40	52	45	40		51	44	40		50
8	63	50	42	36	62	49	42	36	48	41	36		47	40	36		46
9	59	46	38	33	58	46	38	33	44	38	33		43	37	32		42
10	56	43	35	30	54	42	35	30	41	34	30		40	34	30		39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2829	2829	2829
5°	2833	2817	2841
10°	2818	2806	2808
15°	2783	2780	2773
20°	2736	2730	2730
25°	2672	2657	2663
30°	2595	2568	2576
35°	2464	2453	2446
40°	2334	2313	2272
45°	2169	2131	2089
50°	1987	1943	1870
55°	1815	1733	1674
60°	1617	1539	1499
65°	1456	1379	1360
70°	1351	1268	1319
75°	1292	1235	1339
80°	1292	1292	1431
85°	1342	1355	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.5	4.1
10°-20°	561.9	11.6
20°-30°	824.6	17.0
30°-40°	932.3	19.3
40°-50°	861.6	17.8
50°-60°	663.9	13.7
60°-70°	439.6	9.1
70°-80°	261.7	5.4
80°-90°	95.9	2.0
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°	1585.0	32.7
0°-40°	2517.4	52.0
0°-60°	4042.8	83.5
0°-90°	4840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2102	2102	2102	2102	2102	
5°	2097	2097	2085	2086	2103	199
15°	1998	1994	1996	1995	1991	563
25°	1800	1795	1790	1788	1794	829
35°	1500	1498	1493	1486	1489	939
45°	1140	1132	1120	1100	1098	878
55°	774	758	739	719	714	690
65°	457	450	433	429	427	458
75°	249	243	238	249	258	265
85°	87	82	88	97	98	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2102.4	2102.4	2102.4	2102.4	2102.4
2.5°	2115.4	2104.4	2092.4	2092.4	2101.4
5°	2097.4	2097.4	2085.4	2086.4	2103.4
7.5°	2086.4	2080.4	2072.4	2072.4	2085.4
10°	2062.5	2057.5	2053.5	2051.5	2055.5
12.5°	2036.5	2028.5	2031.5	2028.5	2027.5
15°	1997.6	1993.6	1995.6	1994.6	1990.6
17.5°	1955.6	1953.6	1957.6	1950.6	1953.6
20°	1910.7	1904.7	1906.7	1902.7	1906.7
22.5°	1859.8	1855.8	1850.8	1845.8	1853.8
25°	1799.9	1794.9	1789.9	1787.9	1793.9
27.5°	1740.0	1732.0	1725.0	1723.0	1732.0
30°	1670.1	1661.1	1653.2	1651.2	1658.1
32.5°	1587.3	1585.3	1575.3	1571.3	1574.3
35°	1500.4	1498.4	1493.4	1486.4	1489.4
37.5°	1417.6	1416.6	1409.6	1397.6	1389.6
40°	1328.7	1321.7	1316.7	1299.8	1293.8
42.5°	1230.9	1228.9	1219.9	1200.9	1193.9
45°	1140.0	1132.1	1120.1	1100.1	1098.1
47.5°	1046.2	1035.2	1024.2	999.3	998.3
50°	949.4	941.4	928.4	903.4	893.5
52.5°	859.5	848.5	830.6	806.6	801.6
55°	773.7	757.7	738.7	718.8	713.8
57.5°	681.8	674.8	651.9	635.9	629.9
60°	601.0	595.0	572.0	557.0	557.0
62.5°	528.1	519.1	499.1	489.2	489.2
65°	457.2	450.2	433.3	429.3	427.3
67.5°	396.3	387.3	375.4	374.4	379.3
70°	343.4	332.4	322.4	332.4	335.4
72.5°	293.5	286.5	277.5	290.5	296.5
75°	248.6	242.6	237.6	248.6	257.6
77.5°	207.6	201.7	201.7	213.6	221.6
80°	166.7	162.7	166.7	176.7	184.7
82.5°	127.8	124.8	129.8	139.8	144.8
85°	86.9	81.9	87.8	96.8	97.8
87.5°	40.9	39.9	43.9	49.9	48.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)