

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: P293626

Luminaire Tested: **24GR-LD5-48-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293626
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33306)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-48-A-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4605.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.2 / 1.26
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

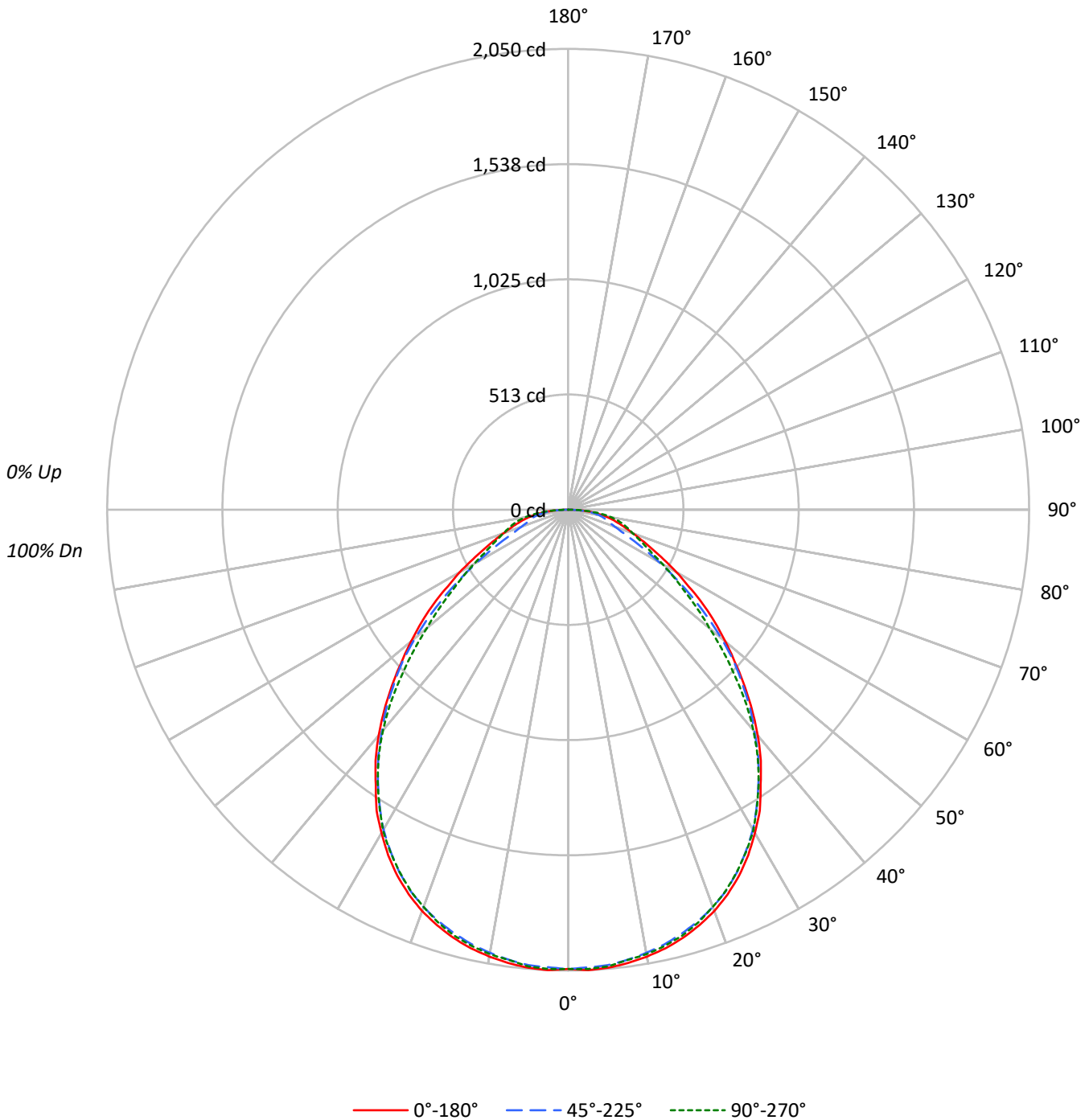
Input Watts (W): 33.759
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63					63			
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55					55			
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49					49			
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43					43			
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39					39			
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35					35			
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32					32			
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29					29			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2749	2749	2749
5°	2762	2747	2754
10°	2757	2735	2743
15°	2747	2719	2731
20°	2721	2693	2692
25°	2668	2639	2637
30°	2580	2553	2559
35°	2450	2422	2426
40°	2304	2264	2250
45°	2112	2083	2001
50°	1909	1857	1717
55°	1714	1560	1480
60°	1501	1256	1302
65°	1309	988	1198
70°	1198	862	1198
75°	1198	917	1320
80°	1301	1080	1505
85°	1428	1220	1615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	4.2
10°-20°	552.2	12.0
20°-30°	818.7	17.8
30°-40°	923.6	20.1
40°-50°	836.5	18.2
50°-60°	603.5	13.1
60°-70°	360.3	7.8
70°-80°	222.7	4.8
80°-90°	93.8	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°	1564.4	34.0
0°-40°	2488.0	54.0
0°-60°	3928.1	85.3
0°-90°	4605.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2043	2043	2043	2043	2043	
5°	2045	2042	2034	2032	2039	194
15°	1972	1960	1952	1953	1961	556
25°	1797	1787	1778	1771	1776	826
35°	1492	1490	1475	1476	1477	933
45°	1110	1103	1095	1068	1052	855
55°	731	708	665	632	631	652
65°	411	362	310	352	376	414
75°	230	200	176	220	254	246
85°	92	81	79	103	105	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2043.2	2043.2	2043.2	2043.2	2043.2
2.5°	2050.3	2044.6	2037.5	2041.8	2045.3
5°	2045.3	2042.5	2033.9	2031.8	2038.9
7.5°	2034.6	2027.5	2019.7	2023.3	2020.4
10°	2018.3	2011.9	2001.9	2002.6	2007.6
12.5°	1998.4	1990.5	1979.9	1982.7	1987.0
15°	1972.0	1959.9	1952.1	1952.8	1960.7
17.5°	1938.6	1929.4	1919.4	1921.5	1925.1
20°	1900.2	1895.2	1881.0	1876.7	1880.3
22.5°	1851.8	1842.6	1834.7	1832.6	1833.3
25°	1797.0	1787.1	1777.8	1771.4	1776.4
27.5°	1733.0	1724.5	1712.4	1710.2	1714.5
30°	1660.4	1654.0	1643.4	1640.5	1646.9
32.5°	1586.5	1575.8	1560.8	1560.8	1562.3
35°	1491.8	1489.7	1474.8	1475.5	1476.9
37.5°	1406.5	1396.5	1388.0	1379.4	1383.7
40°	1311.9	1300.5	1289.1	1283.4	1281.3
42.5°	1210.1	1201.6	1196.6	1176.0	1171.0
45°	1109.8	1102.7	1094.9	1067.8	1051.5
47.5°	1007.4	1005.9	999.5	951.9	935.5
50°	912.0	909.9	887.1	836.6	820.3
52.5°	821.7	807.5	777.6	727.8	724.9
55°	730.6	707.9	665.2	632.4	631.0
57.5°	634.6	607.5	564.2	546.4	555.6
60°	557.7	516.5	466.7	468.8	483.8
62.5°	478.1	431.8	382.7	404.1	421.9
65°	411.2	362.1	310.2	352.2	376.3
67.5°	352.9	307.3	257.5	313.7	337.2
70°	304.5	267.5	219.1	278.2	304.5
72.5°	266.1	231.9	194.2	249.7	280.3
75°	230.5	199.9	176.4	219.8	254.0
77.5°	199.9	170.0	159.4	194.2	227.7
80°	167.9	140.9	139.4	169.3	194.2
82.5°	130.9	112.4	112.4	141.6	156.5
85°	92.5	81.1	79.0	103.2	104.6
87.5°	47.7	45.5	41.3	54.1	54.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)