

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: P293495

Luminaire Tested: **24GR-LD5-48-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293495
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-L82765-W2A1-U-3000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4632.0 lumens
Efficiency: N/A
Efficacy: 141.9 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

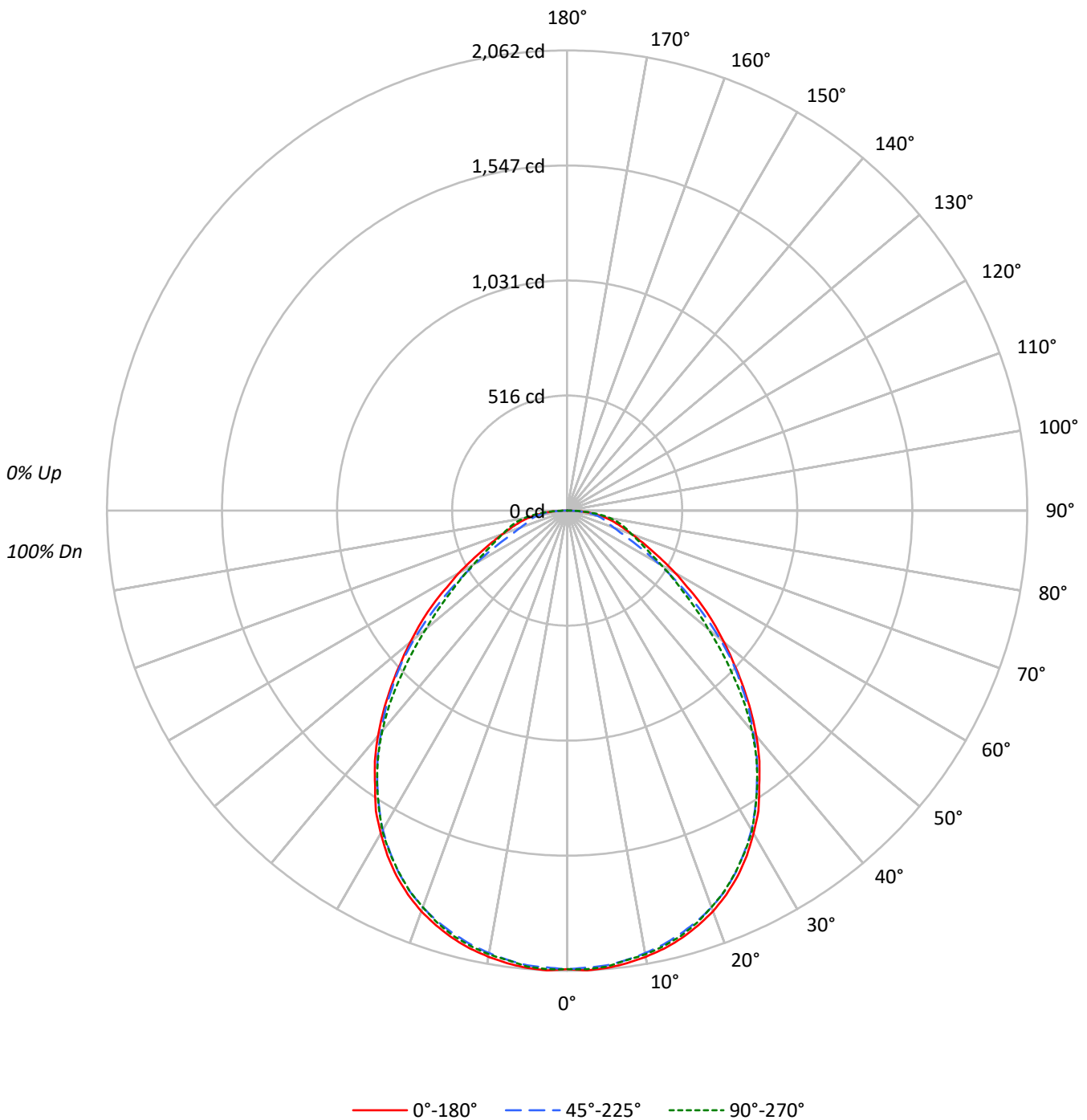
Input Watts (W): 32.643
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2765	2765	2765
5°	2779	2763	2770
10°	2774	2751	2759
15°	2763	2735	2747
20°	2737	2709	2708
25°	2684	2655	2653
30°	2595	2568	2574
35°	2465	2437	2440
40°	2318	2277	2264
45°	2124	2096	2012
50°	1920	1868	1727
55°	1724	1570	1489
60°	1510	1263	1309
65°	1317	993	1205
70°	1205	867	1205
75°	1206	923	1328
80°	1309	1087	1514
85°	1436	1226	1624



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.6	4.2
10°-20°	555.4	12.0
20°-30°	823.6	17.8
30°-40°	929.1	20.1
40°-50°	841.5	18.2
50°-60°	607.1	13.1
60°-70°	362.5	7.8
70°-80°	224.0	4.8
80°-90°	94.4	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°	1573.6	34.0
0°-40°	2502.6	54.0
0°-60°	3951.1	85.3
0°-90°	4632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4632.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2055	2055	2055	2055	2055	
5°	2057	2054	2046	2044	2051	195
15°	1984	1971	1964	1964	1972	559
25°	1808	1798	1788	1782	1787	830
35°	1501	1498	1483	1484	1486	939
45°	1116	1109	1101	1074	1058	860
55°	735	712	669	636	635	656
65°	414	364	312	354	378	416
75°	232	201	178	221	256	248
85°	93	82	79	104	105	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2055.2	2055.2	2055.2	2055.2	2055.2
2.5°	2062.3	2056.6	2049.4	2053.7	2057.3
5°	2057.3	2054.4	2045.9	2043.7	2050.9
7.5°	2046.6	2039.4	2031.6	2035.1	2032.3
10°	2030.1	2023.7	2013.7	2014.4	2019.4
12.5°	2010.1	2002.2	1991.5	1994.3	1998.6
15°	1983.6	1971.4	1963.6	1964.3	1972.2
17.5°	1950.0	1940.7	1930.7	1932.8	1936.4
20°	1911.3	1906.3	1892.0	1887.7	1891.3
22.5°	1862.7	1853.4	1845.5	1843.4	1844.1
25°	1807.6	1797.6	1788.3	1781.8	1786.8
27.5°	1743.2	1734.6	1722.4	1720.3	1724.6
30°	1670.2	1663.7	1653.0	1650.1	1656.6
32.5°	1595.8	1585.0	1570.0	1570.0	1571.4
35°	1500.6	1498.4	1483.4	1484.1	1485.6
37.5°	1414.7	1404.7	1396.1	1387.5	1391.8
40°	1319.5	1308.1	1296.6	1290.9	1288.8
42.5°	1217.2	1208.6	1203.6	1182.9	1177.9
45°	1116.3	1109.2	1101.3	1074.1	1057.6
47.5°	1013.3	1011.8	1005.4	957.5	941.0
50°	917.4	915.2	892.3	841.5	825.1
52.5°	826.5	812.2	782.1	732.0	729.2
55°	734.9	712.0	669.1	636.2	634.7
57.5°	638.3	611.1	567.5	549.6	558.9
60°	561.0	519.5	469.4	471.6	486.6
62.5°	480.9	434.4	385.0	406.5	424.3
65°	413.6	364.2	312.0	354.2	378.5
67.5°	354.9	309.1	259.0	315.6	339.2
70°	306.3	269.1	220.4	279.8	306.3
72.5°	267.6	233.3	195.4	251.2	281.9
75°	231.9	201.1	177.5	221.1	255.5
77.5°	201.1	171.0	160.3	195.4	229.0
80°	168.9	141.7	140.3	170.3	195.4
82.5°	131.7	113.1	113.1	142.4	157.4
85°	93.0	81.6	79.4	103.8	105.2
87.5°	47.9	45.8	41.5	54.4	54.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)