

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: P293627

Luminaire Tested: **24GR-LD5-48-A-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293627
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-5700K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4625.0 lumens
Efficiency: N/A
Efficacy: 136.6 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

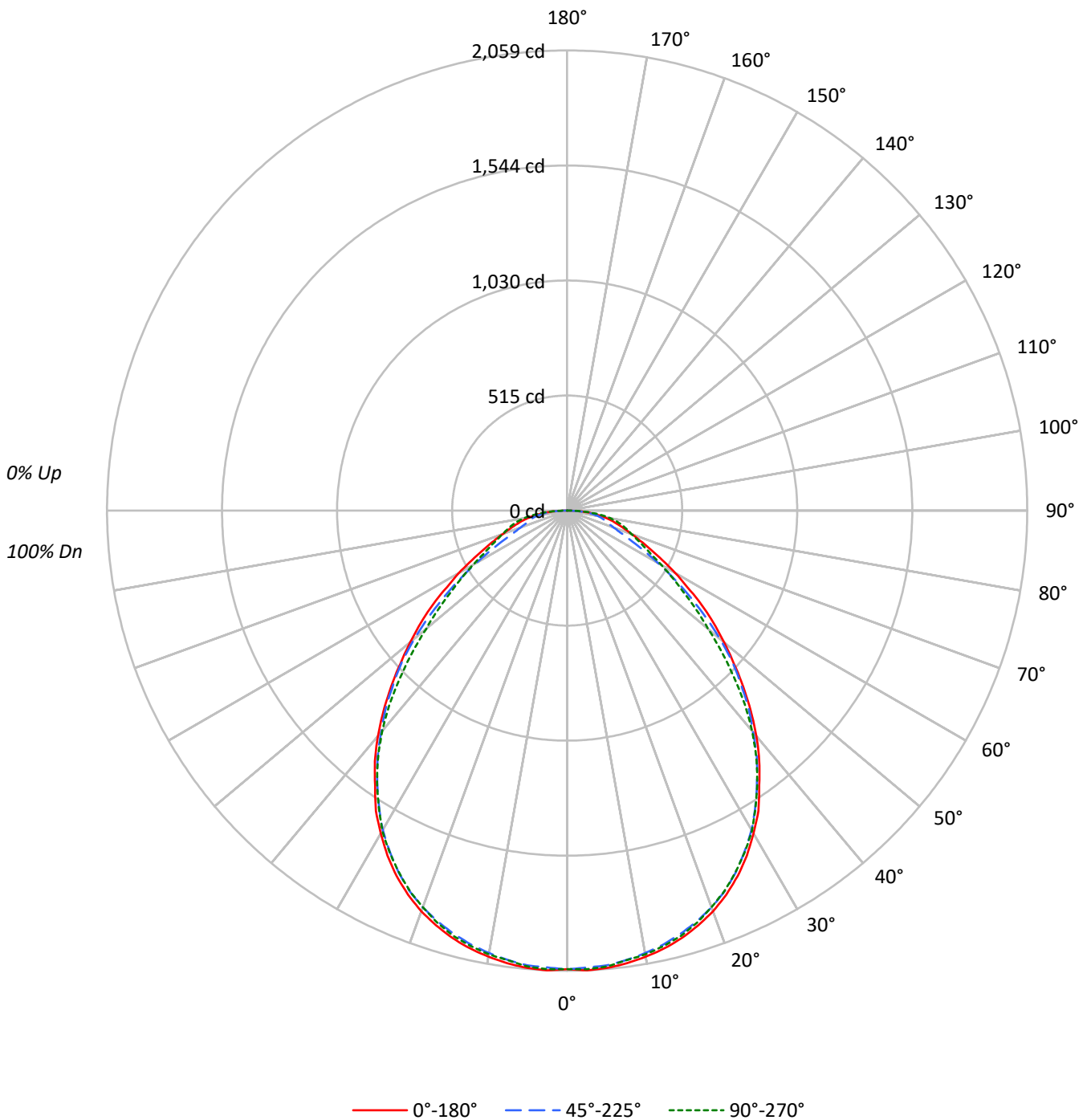
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2761	2761	2761
5°	2774	2759	2766
10°	2770	2747	2755
15°	2759	2731	2743
20°	2733	2705	2704
25°	2679	2651	2649
30°	2591	2564	2570
35°	2461	2433	2436
40°	2314	2274	2260
45°	2121	2092	2009
50°	1917	1865	1724
55°	1721	1567	1487
60°	1507	1261	1308
65°	1315	992	1203
70°	1203	866	1203
75°	1203	921	1326
80°	1306	1085	1512
85°	1434	1224	1621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.3	4.2
10°-20°	554.6	12.0
20°-30°	822.3	17.8
30°-40°	927.7	20.1
40°-50°	840.2	18.2
50°-60°	606.1	13.1
60°-70°	361.9	7.8
70°-80°	223.7	4.8
80°-90°	94.2	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°	1571.2	34.0
0°-40°	2498.8	54.0
0°-60°	3945.2	85.3
0°-90°	4625.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4625.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2052	2052	2052	2052	2052	
5°	2054	2051	2043	2041	2048	195
15°	1981	1968	1961	1961	1969	558
25°	1805	1795	1786	1779	1784	829
35°	1498	1496	1481	1482	1483	937
45°	1115	1108	1100	1072	1056	859
55°	734	711	668	635	634	655
65°	413	364	312	354	378	415
75°	232	201	177	221	255	247
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°	2052.1	2052.1	2052.1	2052.1	2052.1
2.5°	2059.2	2053.5	2046.3	2050.6	2054.2
5°	2054.2	2051.3	2042.8	2040.6	2047.8
7.5°	2043.5	2036.3	2028.5	2032.1	2029.2
10°	2027.1	2020.6	2010.6	2011.3	2016.3
12.5°	2007.0	1999.2	1988.5	1991.3	1995.6
15°	1980.6	1968.5	1960.6	1961.3	1969.2
17.5°	1947.0	1937.7	1927.7	1929.9	1933.5
20°	1908.4	1903.4	1889.2	1884.9	1888.4
22.5°	1859.9	1850.6	1842.7	1840.6	1841.3
25°	1804.8	1794.8	1785.5	1779.1	1784.1
27.5°	1740.5	1732.0	1719.8	1717.7	1722.0
30°	1667.7	1661.2	1650.5	1647.6	1654.1
32.5°	1593.3	1582.6	1567.6	1567.6	1569.1
35°	1498.3	1496.2	1481.2	1481.9	1483.3
37.5°	1412.6	1402.6	1394.0	1385.4	1389.7
40°	1317.5	1306.1	1294.7	1289.0	1286.8
42.5°	1215.4	1206.8	1201.8	1181.1	1176.1
45°	1114.6	1107.5	1099.6	1072.5	1056.0
47.5°	1011.7	1010.3	1003.9	956.0	939.6
50°	916.0	913.9	891.0	840.3	823.8
52.5°	825.3	811.0	781.0	730.9	728.1
55°	733.8	710.9	668.1	635.2	633.8
57.5°	637.3	610.2	566.6	548.7	558.0
60°	560.2	518.7	468.7	470.9	485.9
62.5°	480.1	433.7	384.4	405.8	423.7
65°	413.0	363.7	311.5	353.7	378.0
67.5°	354.4	308.7	258.7	315.1	338.7
70°	305.8	268.7	220.1	279.4	305.8
72.5°	267.2	232.9	195.1	250.8	281.5
75°	231.5	200.8	177.2	220.8	255.1
77.5°	200.8	170.8	160.0	195.1	228.6
80°	168.6	141.5	140.0	170.1	195.1
82.5°	131.5	112.9	112.9	142.2	157.2
85°	92.9	81.5	79.3	103.6	105.0
87.5°	47.9	45.7	41.4	54.3	54.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)