

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: P293625

Luminaire Tested: **24GR-LD5-48-A-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293625
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4535.0 lumens
Efficiency: N/A
Efficacy: 135.1 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

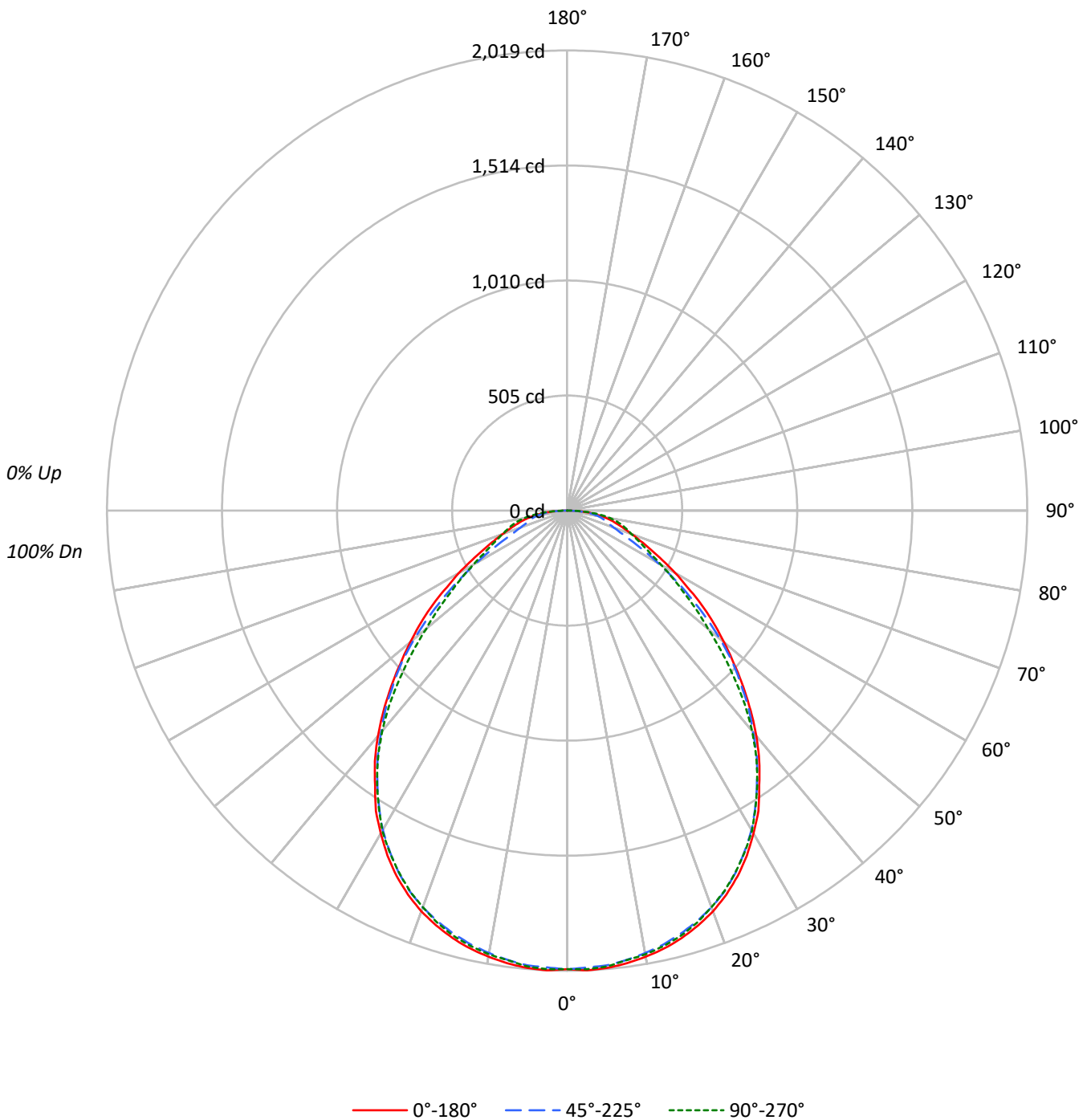
Input Watts (W): 33.573
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2707	2707	2707
5°	2720	2705	2712
10°	2716	2694	2701
15°	2705	2678	2690
20°	2679	2652	2651
25°	2627	2599	2597
30°	2541	2514	2520
35°	2413	2385	2389
40°	2269	2230	2216
45°	2080	2052	1970
50°	1880	1829	1691
55°	1688	1537	1458
60°	1478	1237	1282
65°	1289	973	1180
70°	1180	849	1180
75°	1180	903	1300
80°	1281	1064	1482
85°	1406	1201	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.5	4.2
10°-20°	543.8	12.0
20°-30°	806.3	17.8
30°-40°	909.6	20.1
40°-50°	823.8	18.2
50°-60°	594.3	13.1
60°-70°	354.9	7.8
70°-80°	219.3	4.8
80°-90°	92.4	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°	1540.6	34.0
0°-40°	2450.2	54.0
0°-60°	3868.4	85.3
0°-90°	4535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4535.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2012	2012	2012	2012	2012	
5°	2014	2011	2003	2001	2008	191
15°	1942	1930	1922	1923	1931	547
25°	1770	1760	1751	1744	1749	813
35°	1469	1467	1452	1453	1454	919
45°	1093	1086	1078	1052	1036	842
55°	720	697	655	623	621	642
65°	405	357	306	347	371	407
75°	227	197	174	216	250	242
85°	91	80	78	102	103	95
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2012.1	2012.1	2012.1	2012.1	2012.1
2.5°	2019.1	2013.5	2006.5	2010.7	2014.2
5°	2014.2	2011.4	2003.0	2000.9	2007.9
7.5°	2003.7	1996.7	1989.0	1992.5	1989.7
10°	1987.6	1981.3	1971.5	1972.2	1977.1
12.5°	1968.0	1960.3	1949.8	1952.6	1956.8
15°	1942.1	1930.2	1922.4	1923.2	1930.9
17.5°	1909.1	1900.0	1890.2	1892.3	1895.8
20°	1871.3	1866.4	1852.4	1848.2	1851.7
22.5°	1823.7	1814.6	1806.9	1804.7	1805.4
25°	1769.7	1759.9	1750.8	1744.5	1749.4
27.5°	1706.7	1698.3	1686.3	1684.2	1688.4
30°	1635.2	1628.9	1618.4	1615.6	1621.9
32.5°	1562.3	1551.8	1537.1	1537.1	1538.5
35°	1469.2	1467.1	1452.3	1453.0	1454.4
37.5°	1385.1	1375.3	1366.9	1358.5	1362.7
40°	1291.9	1280.7	1269.5	1263.9	1261.8
42.5°	1191.7	1183.3	1178.4	1158.1	1153.2
45°	1092.9	1085.9	1078.2	1051.6	1035.5
47.5°	992.1	990.7	984.3	937.4	921.3
50°	898.2	896.1	873.6	823.9	807.8
52.5°	809.2	795.2	765.8	716.7	713.9
55°	719.5	697.1	655.1	622.8	621.4
57.5°	624.9	598.3	555.6	538.1	547.2
60°	549.3	508.6	459.6	461.7	476.4
62.5°	470.8	425.3	376.9	397.9	415.5
65°	404.9	356.6	305.5	346.8	370.6
67.5°	347.5	302.7	253.6	309.0	332.1
70°	299.9	263.4	215.8	273.9	299.9
72.5°	262.0	228.4	191.3	245.9	276.0
75°	227.0	196.9	173.7	216.5	250.1
77.5°	196.9	167.4	156.9	191.3	224.2
80°	165.3	138.7	137.3	166.7	191.3
82.5°	128.9	110.7	110.7	139.4	154.1
85°	91.1	79.9	77.8	101.6	103.0
87.5°	46.9	44.8	40.6	53.2	53.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)