

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: P293992

Luminaire Tested: **24GR-LD5-42-A19/156-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293992
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33308)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A19/156-UNV-L82765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4073.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

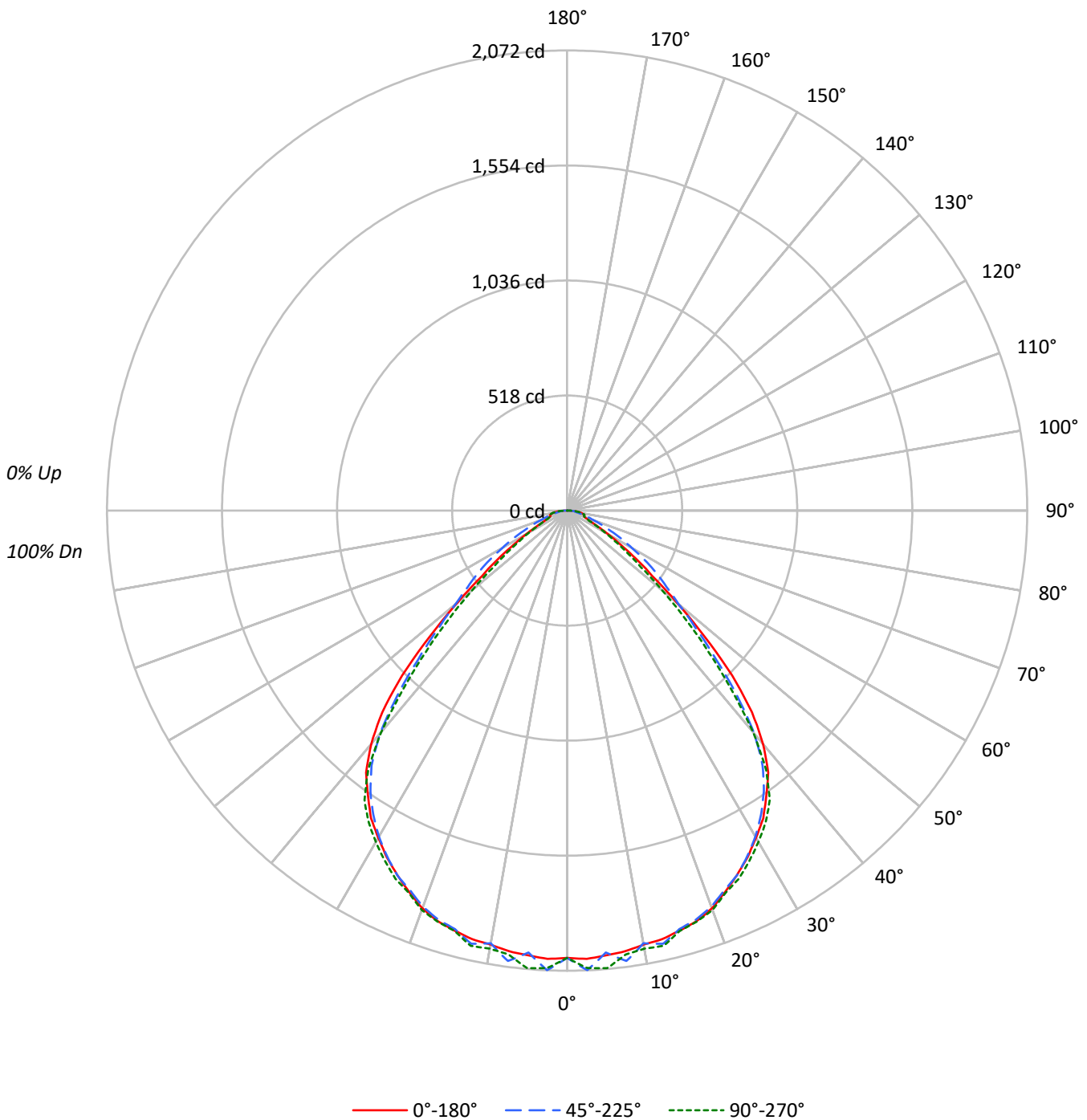
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96		97	95	93		93	92	90	88
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85	82	79	77
3	95	86	79	74	93	85	78	73	82	77	72		79	75	71		77	73	70	68
4	88	78	71	65	86	77	70	64	74	68	64		72	67	63		70	66	62	60
5	82	71	63	57	80	70	62	57	68	61	56		66	60	56		64	59	55	53
6	76	65	57	51	75	64	56	51	62	55	50		60	55	50		59	54	50	48
7	71	59	51	46	70	58	51	46	57	50	45		56	50	45		54	49	45	43
8	67	55	47	42	65	54	47	41	53	46	41		51	45	41		50	45	41	39
9	63	50	43	38	61	50	43	38	49	42	38		48	42	37		47	41	37	36
10	59	47	39	35	58	46	39	35	45	39	34		44	38	34		44	38	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2710	2710	2710
5°	2716	2698	2794
10°	2711	2703	2736
15°	2727	2718	2729
20°	2729	2718	2740
25°	2687	2689	2715
30°	2642	2634	2677
35°	2568	2537	2613
40°	2412	2304	2291
45°	1999	1808	1715
50°	1344	1372	1172
55°	887	1151	769
60°	569	908	526
65°	366	693	356
70°	324	496	324
75°	418	395	422
80°	512	339	537
85°	596	505	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.8	4.7
10°-20°	553.7	13.6
20°-30°	833.6	20.5
30°-40°	966.2	23.7
40°-50°	754.7	18.5
50°-60°	403.0	9.9
60°-70°	207.2	5.1
70°-80°	117.2	2.9
80°-90°	44.5	1.1
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°	1580.1	38.8
0°-40°	2546.3	62.5
0°-60°	3704.0	90.9
0°-90°	4073.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2011	2067	1998	2053	2068	191
15°	1958	1970	1951	1964	1959	553
25°	1810	1804	1811	1809	1829	834
35°	1563	1556	1544	1575	1591	975
45°	1050	1051	950	942	901	792
55°	378	478	491	442	328	349
65°	115	240	218	239	112	127
75°	80	151	76	141	81	82
85°	39	50	33	50	41	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2014.0	2014.0	2014.0	2014.0	2014.0
2.5°	2020.5	2057.2	2071.5	2053.9	2061.7
5°	2010.7	2067.0	1997.6	2052.6	2068.3
7.5°	2001.6	1995.7	2046.0	1993.7	2015.9
10°	1984.5	1988.5	1978.7	2015.9	2002.9
12.5°	1976.7	1999.6	1997.6	1978.7	2007.4
15°	1957.7	1970.2	1951.2	1963.6	1959.0
17.5°	1938.8	1932.9	1930.9	1936.1	1940.7
20°	1906.1	1886.4	1898.2	1899.5	1913.9
22.5°	1859.0	1847.2	1849.8	1861.6	1862.9
25°	1809.9	1804.0	1811.2	1808.6	1828.9
27.5°	1758.9	1751.0	1755.6	1765.4	1777.9
30°	1700.7	1698.7	1695.4	1703.9	1722.9
32.5°	1643.1	1627.4	1624.8	1642.5	1664.0
35°	1563.3	1556.1	1544.3	1575.1	1590.8
37.5°	1487.4	1465.2	1446.2	1464.5	1471.1
40°	1373.0	1356.0	1311.5	1313.4	1304.3
42.5°	1232.3	1219.9	1134.9	1119.8	1094.3
45°	1050.5	1051.1	950.4	941.9	901.4
47.5°	839.2	876.5	788.8	779.0	718.9
50°	642.3	709.7	655.4	639.7	559.9
52.5°	482.1	580.8	563.8	529.8	419.9
55°	378.1	478.1	490.6	442.2	327.7
57.5°	284.5	393.8	414.0	374.1	253.1
60°	211.3	331.6	337.5	321.8	195.6
62.5°	157.0	281.9	274.1	276.0	145.2
65°	115.1	240.1	217.8	239.4	111.9
67.5°	94.2	208.0	169.4	207.4	90.9
70°	82.4	184.5	126.2	182.5	82.4
72.5°	79.8	169.4	100.1	162.2	80.5
75°	80.5	151.1	75.9	141.3	81.1
77.5°	73.9	124.3	57.6	120.4	77.2
80°	66.1	94.2	43.8	95.5	69.3
82.5°	56.3	68.7	35.3	70.6	58.2
85°	38.6	50.4	32.7	50.4	40.6
87.5°	18.3	30.1	20.3	28.8	20.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)