

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: P293986

Luminaire Tested: **24GR-LD5-38-A19/156-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293986
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-LD5-38-A19/156-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3894.0 lumens
Efficiency: N/A
Efficacy: 149.0 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

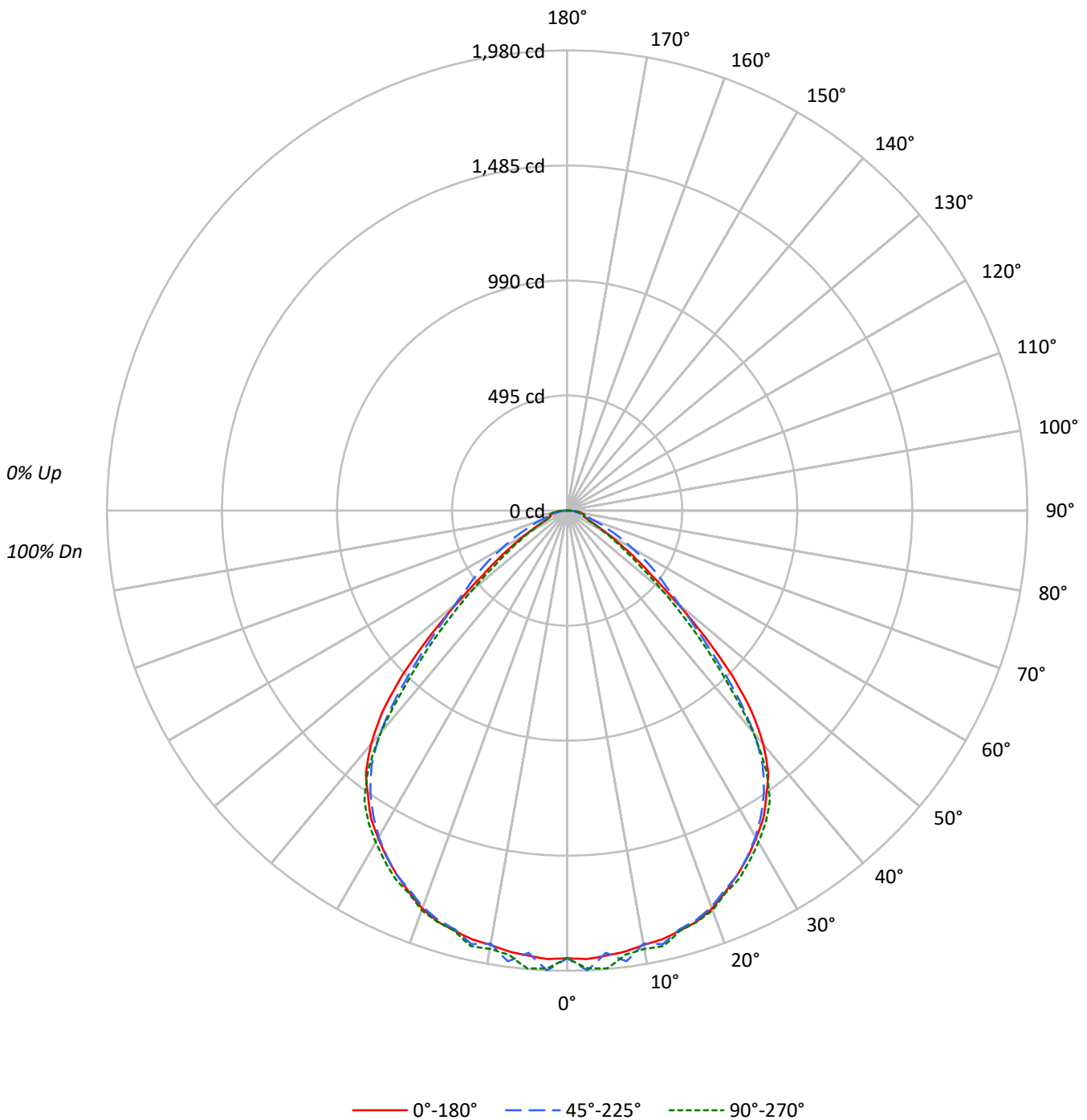
Input Watts (W): 26.133
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2591	2591	2591
5°	2596	2579	2671
10°	2592	2585	2616
15°	2607	2598	2609
20°	2609	2599	2620
25°	2569	2571	2596
30°	2526	2518	2559
35°	2455	2425	2498
40°	2305	2202	2190
45°	1911	1729	1640
50°	1285	1312	1120
55°	848	1100	735
60°	544	868	503
65°	351	663	340
70°	310	475	310
75°	400	377	403
80°	490	325	514
85°	570	483	599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.4	4.7
10°-20°	529.4	13.6
20°-30°	796.9	20.5
30°-40°	923.7	23.7
40°-50°	721.6	18.5
50°-60°	385.3	9.9
60°-70°	198.1	5.1
70°-80°	112.1	2.9
80°-90°	42.6	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°	1510.7	38.8
0°-40°	2434.4	62.5
0°-60°	3541.2	90.9
0°-90°	3894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3894.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1922	1976	1910	1962	1977	183
15°	1872	1884	1865	1877	1873	529
25°	1730	1725	1732	1729	1748	797
35°	1495	1488	1476	1506	1521	932
45°	1004	1005	909	900	862	757
55°	362	457	469	423	313	334
65°	110	230	208	229	107	121
75°	77	144	72	135	78	78
85°	37	48	31	48	39	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1925.5	1925.5	1925.5	1925.5	1925.5
2.5°	1931.7	1966.7	1980.5	1963.6	1971.1
5°	1922.3	1976.1	1909.8	1962.4	1977.4
7.5°	1913.6	1908.0	1956.1	1906.1	1927.3
10°	1897.3	1901.1	1891.7	1927.3	1914.8
12.5°	1889.8	1911.7	1909.8	1891.7	1919.2
15°	1871.7	1883.6	1865.4	1877.3	1872.9
17.5°	1853.6	1847.9	1846.1	1851.1	1855.4
20°	1822.3	1803.5	1814.8	1816.0	1829.8
22.5°	1777.3	1766.0	1768.5	1779.8	1781.0
25°	1730.4	1724.7	1731.6	1729.1	1748.5
27.5°	1681.6	1674.1	1678.5	1687.8	1699.7
30°	1625.9	1624.0	1620.9	1629.1	1647.2
32.5°	1570.9	1555.9	1553.4	1570.3	1590.9
35°	1494.6	1487.7	1476.5	1505.9	1520.9
37.5°	1422.1	1400.8	1382.7	1400.2	1406.4
40°	1312.6	1296.4	1253.8	1255.7	1247.0
42.5°	1178.2	1166.3	1085.0	1070.6	1046.2
45°	1004.3	1004.9	908.6	900.5	861.7
47.5°	802.3	838.0	754.2	744.8	687.3
50°	614.1	678.5	626.6	611.6	535.3
52.5°	460.9	555.3	539.1	506.5	401.5
55°	361.5	457.1	469.0	422.7	313.3
57.5°	272.0	376.5	395.9	357.7	242.0
60°	202.0	317.1	322.7	307.7	187.0
62.5°	150.1	269.5	262.0	263.9	138.8
65°	110.1	229.5	208.2	228.9	106.9
67.5°	90.1	198.9	162.0	198.2	86.9
70°	78.8	176.4	120.7	174.5	78.8
72.5°	76.3	162.0	95.7	155.1	76.9
75°	76.9	144.5	72.5	135.1	77.5
77.5°	70.7	118.8	55.0	115.1	73.8
80°	63.2	90.1	41.9	91.3	66.3
82.5°	53.8	65.7	33.8	67.5	55.7
85°	36.9	48.2	31.3	48.2	38.8
87.5°	17.5	28.8	19.4	27.5	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)