

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: P294118

Luminaire Tested: **24GR-LD5-42-A19/156-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294118
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-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3603.0 lumens
Efficiency: N/A
Efficacy: 127.0 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

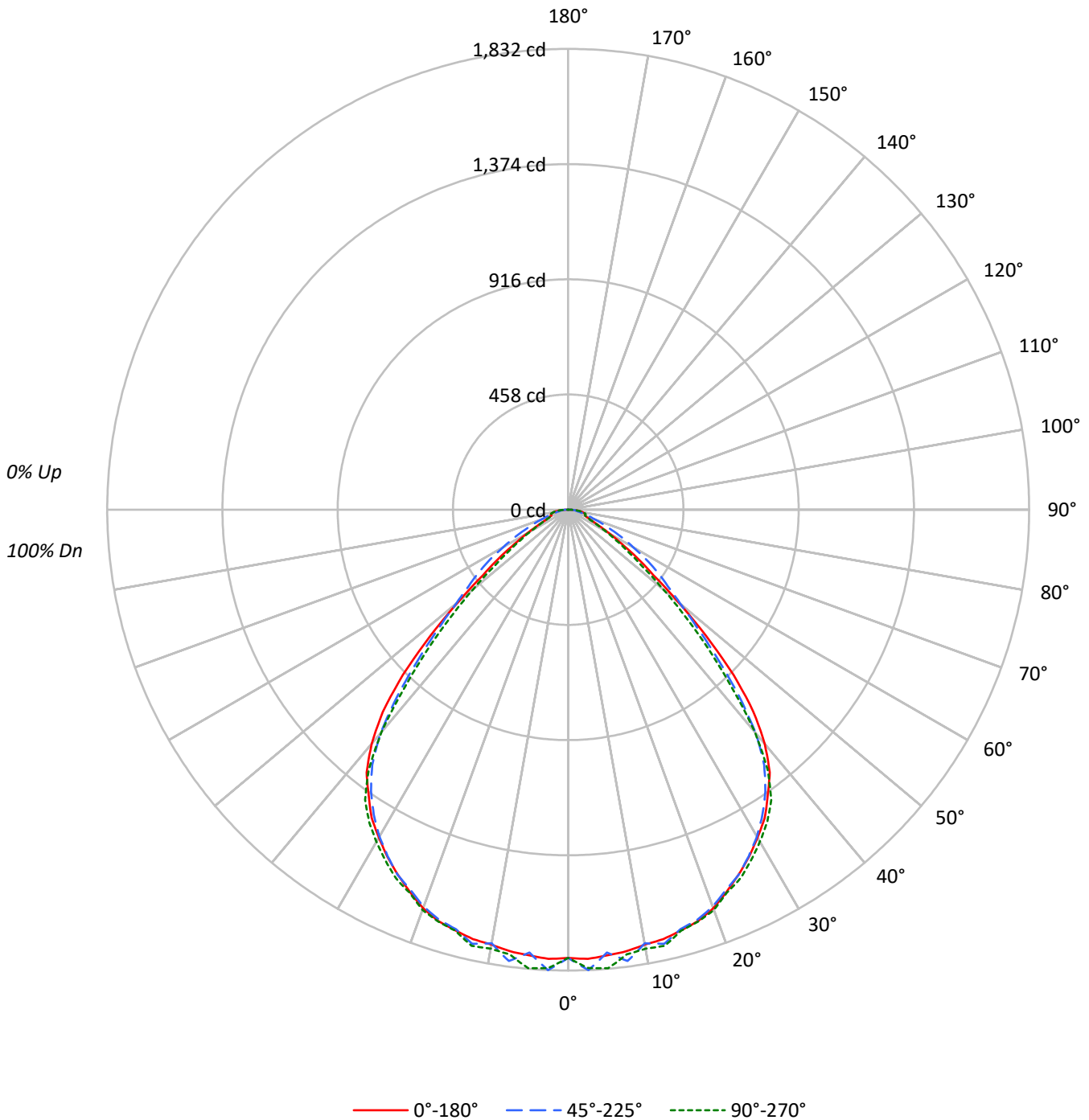
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2397	2397	2397
5°	2402	2387	2471
10°	2398	2391	2421
15°	2412	2404	2414
20°	2414	2404	2424
25°	2377	2379	2402
30°	2337	2330	2368
35°	2271	2244	2311
40°	2133	2038	2027
45°	1768	1600	1517
50°	1189	1214	1037
55°	784	1018	680
60°	503	804	466
65°	324	613	315
70°	287	439	287
75°	370	349	373
80°	453	301	475
85°	526	446	554



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.6	4.7
10°-20°	489.8	13.6
20°-30°	737.4	20.5
30°-40°	854.7	23.7
40°-50°	667.6	18.5
50°-60°	356.5	9.9
60°-70°	183.3	5.1
70°-80°	103.7	2.9
80°-90°	39.4	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°	1397.8	38.8
0°-40°	2252.4	62.5
0°-60°	3276.6	90.9
0°-90°	3603.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1782	1782	1782	1782	1782	
5°	1779	1828	1767	1816	1830	169
15°	1732	1743	1726	1737	1733	489
25°	1601	1596	1602	1600	1618	738
35°	1383	1376	1366	1393	1407	862
45°	929	930	841	833	797	700
55°	334	423	434	391	290	309
65°	102	212	193	212	99	112
75°	71	134	67	125	72	72
85°	34	45	29	45	36	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1781.6	1781.6	1781.6	1781.6	1781.6
2.5°	1787.4	1819.8	1832.5	1816.9	1823.8
5°	1778.7	1828.4	1767.1	1815.7	1829.6
7.5°	1770.6	1765.4	1809.9	1763.6	1783.3
10°	1755.5	1759.0	1750.3	1783.3	1771.7
12.5°	1748.6	1768.9	1767.1	1750.3	1775.8
15°	1731.8	1742.8	1726.0	1737.0	1733.0
17.5°	1715.0	1709.8	1708.1	1712.7	1716.8
20°	1686.1	1668.7	1679.2	1680.3	1693.1
22.5°	1644.4	1634.0	1636.3	1646.8	1647.9
25°	1601.0	1595.8	1602.2	1599.9	1617.8
27.5°	1555.9	1549.0	1553.0	1561.7	1572.7
30°	1504.4	1502.7	1499.8	1507.3	1524.1
32.5°	1453.5	1439.6	1437.3	1452.9	1472.0
35°	1382.9	1376.5	1366.1	1393.3	1407.2
37.5°	1315.8	1296.1	1279.3	1295.5	1301.3
40°	1214.5	1199.5	1160.1	1161.9	1153.8
42.5°	1090.1	1079.1	1003.9	990.6	968.0
45°	929.3	929.8	840.7	833.2	797.3
47.5°	742.4	775.4	697.8	689.1	635.9
50°	568.2	627.8	579.8	565.9	495.3
52.5°	426.4	513.8	498.8	468.7	371.5
55°	334.4	423.0	434.0	391.1	289.9
57.5°	251.7	348.3	366.3	331.0	223.9
60°	186.9	293.4	298.6	284.7	173.0
62.5°	138.9	249.4	242.4	244.2	128.5
65°	101.8	212.4	192.7	211.8	98.9
67.5°	83.3	184.0	149.9	183.4	80.4
70°	72.9	163.2	111.7	161.4	72.9
72.5°	70.6	149.9	88.5	143.5	71.2
75°	71.2	133.7	67.1	125.0	71.7
77.5°	65.4	109.9	50.9	106.5	68.3
80°	58.4	83.3	38.8	84.5	61.3
82.5°	49.8	60.8	31.2	62.5	51.5
85°	34.1	44.6	28.9	44.6	35.9
87.5°	16.2	26.6	17.9	25.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)