

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: P294121

Luminaire Tested: **24GR-LD5-42-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P294121
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-5500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (336) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3830.0 lumens
Efficiency: N/A
Efficacy: 133.3 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

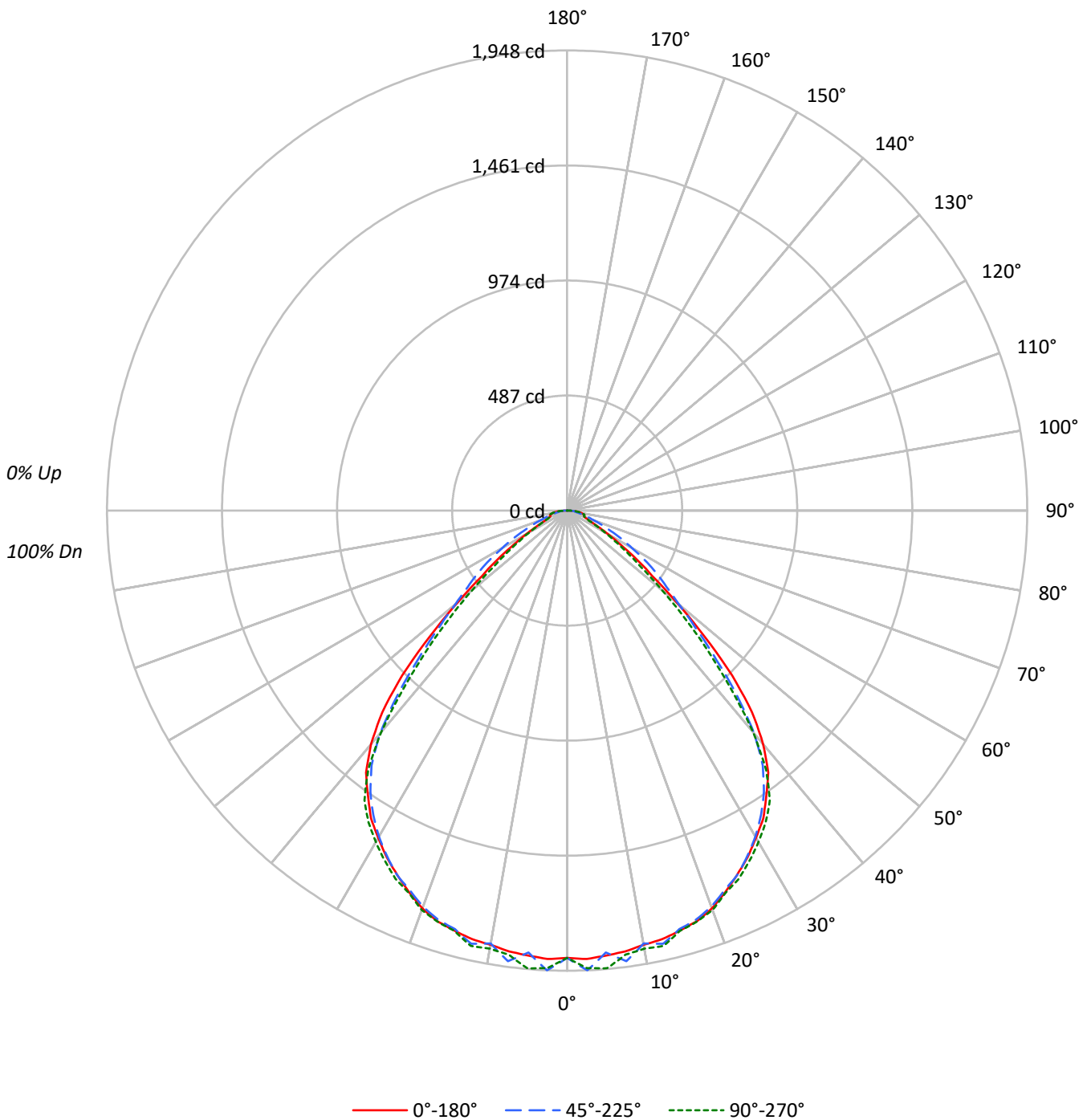
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2548	2548	2548
5°	2554	2537	2627
10°	2550	2542	2573
15°	2564	2556	2566
20°	2566	2556	2577
25°	2527	2529	2553
30°	2485	2477	2517
35°	2415	2385	2457
40°	2268	2166	2154
45°	1880	1701	1613
50°	1264	1290	1102
55°	834	1082	723
60°	535	854	495
65°	345	652	335
70°	305	467	305
75°	394	371	397
80°	481	319	505
85°	560	475	588



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.3	4.7
10°-20°	520.7	13.6
20°-30°	783.9	20.5
30°-40°	908.5	23.7
40°-50°	709.7	18.5
50°-60°	379.0	9.9
60°-70°	194.9	5.1
70°-80°	110.2	2.9
80°-90°	41.9	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°	1485.8	38.8
0°-40°	2394.4	62.5
0°-60°	3483.0	90.9
0°-90°	3830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1891	1944	1878	1930	1945	180
15°	1841	1853	1835	1846	1842	520
25°	1702	1696	1703	1701	1720	784
35°	1470	1463	1452	1481	1496	916
45°	988	988	894	886	848	744
55°	356	450	461	416	308	328
65°	108	226	205	225	105	119
75°	76	142	71	133	76	77
85°	36	47	31	47	38	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1893.8	1893.8	1893.8	1893.8	1893.8
2.5°	1900.0	1934.4	1948.0	1931.3	1938.7
5°	1890.7	1943.6	1878.4	1930.1	1944.9
7.5°	1882.1	1876.6	1924.0	1874.8	1895.7
10°	1866.1	1869.8	1860.6	1895.7	1883.4
12.5°	1858.8	1880.3	1878.4	1860.6	1887.7
15°	1840.9	1852.6	1834.8	1846.5	1842.2
17.5°	1823.1	1817.6	1815.7	1820.6	1824.9
20°	1792.3	1773.9	1785.0	1786.2	1799.7
22.5°	1748.1	1737.0	1739.4	1750.5	1751.7
25°	1701.9	1696.4	1703.2	1700.7	1719.8
27.5°	1653.9	1646.6	1650.9	1660.1	1671.8
30°	1599.2	1597.4	1594.3	1602.3	1620.1
32.5°	1545.1	1530.3	1527.9	1544.5	1564.8
35°	1470.0	1463.3	1452.2	1481.1	1495.9
37.5°	1398.7	1377.8	1359.9	1377.2	1383.3
40°	1291.0	1275.1	1233.2	1235.1	1226.5
42.5°	1158.8	1147.1	1067.2	1053.0	1029.0
45°	987.8	988.4	893.7	885.7	847.6
47.5°	789.1	824.2	741.8	732.6	676.0
50°	604.0	667.4	616.3	601.5	526.5
52.5°	453.3	546.2	530.2	498.2	394.9
55°	355.5	449.6	461.3	415.8	308.2
57.5°	267.6	370.3	389.3	351.8	238.0
60°	198.7	311.8	317.4	302.6	183.9
62.5°	147.6	265.1	257.7	259.6	136.5
65°	108.3	225.7	204.8	225.1	105.2
67.5°	88.6	195.6	159.3	195.0	85.5
70°	77.5	173.5	118.7	171.6	77.5
72.5°	75.0	159.3	94.1	152.5	75.7
75°	75.7	142.1	71.3	132.9	76.3
77.5°	69.5	116.9	54.1	113.2	72.6
80°	62.1	88.6	41.2	89.8	65.2
82.5°	52.9	64.6	33.2	66.4	54.7
85°	36.3	47.4	30.8	47.4	38.1
87.5°	17.2	28.3	19.1	27.1	19.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)