

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: P293489

Luminaire Tested: **24GR-LD5-42-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293489
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-LD5-42-A-UNV-L82765-W2A1-U-4500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4308.0 lumens
Efficiency: N/A
Efficacy: 150.9 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

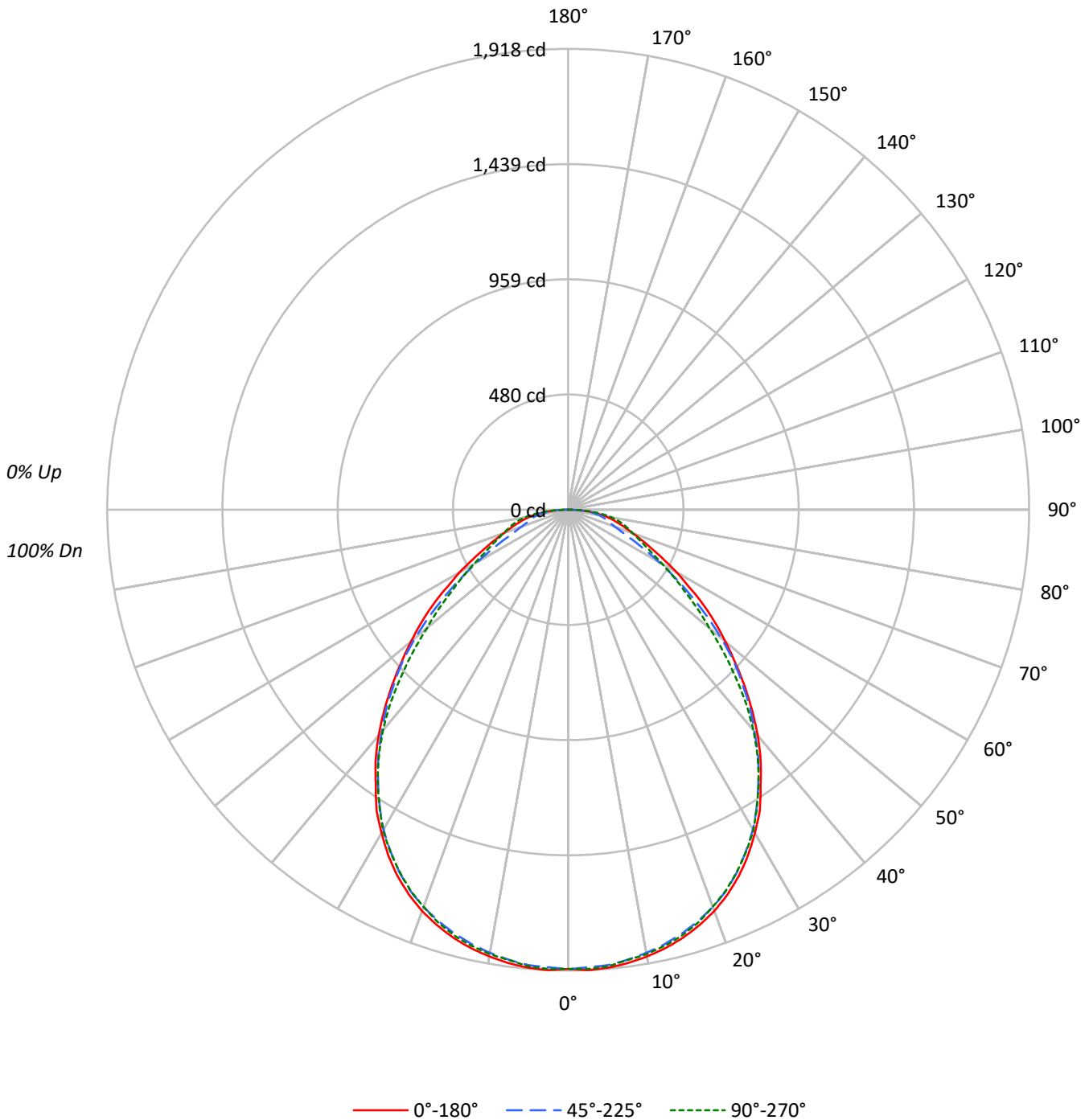
Input Watts (W): 28.551
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73
3	93	83	75	69	90	81	74	69	79	73	68	76	71	67	73	69	65	63
4	86	74	66	60	83	73	65	60	71	64	59	68	63	58	66	61	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	49
6	73	61	53	46	72	60	52	46	58	51	46	57	50	45	55	49	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2572	2572	2572
5°	2584	2570	2576
10°	2580	2559	2566
15°	2570	2544	2555
20°	2545	2520	2519
25°	2496	2469	2467
30°	2413	2389	2394
35°	2292	2266	2269
40°	2155	2118	2105
45°	1975	1949	1872
50°	1786	1737	1606
55°	1603	1460	1385
60°	1404	1175	1218
65°	1225	924	1121
70°	1120	806	1120
75°	1121	858	1235
80°	1217	1010	1408
85°	1335	1141	1510



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.0	4.2
10°-20°	516.6	12.0
20°-30°	765.9	17.8
30°-40°	864.1	20.1
40°-50°	782.6	18.2
50°-60°	564.6	13.1
60°-70°	337.1	7.8
70°-80°	208.4	4.8
80°-90°	87.8	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°	1463.5	34.0
0°-40°	2327.6	54.0
0°-60°	3674.8	85.3
0°-90°	4308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1911	1911	1911	1911	1911	
5°	1913	1911	1903	1901	1907	182
15°	1845	1834	1826	1827	1834	520
25°	1681	1672	1663	1657	1662	772
35°	1396	1394	1380	1380	1382	873
45°	1038	1032	1024	999	984	800
55°	684	662	622	592	590	610
65°	385	339	290	329	352	387
75°	216	187	165	206	238	230
85°	86	76	74	96	98	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1911.4	1911.4	1911.4	1911.4	1911.4
2.5°	1918.1	1912.7	1906.1	1910.1	1913.4
5°	1913.4	1910.7	1902.8	1900.8	1907.4
7.5°	1903.4	1896.8	1889.4	1892.8	1890.1
10°	1888.1	1882.1	1872.8	1873.5	1878.1
12.5°	1869.5	1862.2	1852.2	1854.8	1858.8
15°	1844.9	1833.5	1826.2	1826.9	1834.2
17.5°	1813.6	1804.9	1795.6	1797.6	1800.9
20°	1777.6	1773.0	1759.7	1755.7	1759.0
22.5°	1732.4	1723.7	1716.4	1714.4	1715.1
25°	1681.1	1671.8	1663.2	1657.2	1661.8
27.5°	1621.2	1613.3	1601.9	1599.9	1603.9
30°	1553.4	1547.4	1537.4	1534.7	1540.7
32.5°	1484.1	1474.2	1460.2	1460.2	1461.5
35°	1395.6	1393.6	1379.6	1380.3	1381.6
37.5°	1315.8	1306.4	1298.5	1290.5	1294.5
40°	1227.2	1216.6	1205.9	1200.6	1198.6
42.5°	1132.1	1124.1	1119.4	1100.1	1095.5
45°	1038.2	1031.6	1024.3	999.0	983.7
47.5°	942.4	941.1	935.1	890.5	875.2
50°	853.2	851.2	829.9	782.7	767.4
52.5°	768.7	755.4	727.4	680.8	678.2
55°	683.5	662.2	622.3	591.7	590.3
57.5°	593.7	568.4	527.8	511.1	519.8
60°	521.8	483.2	436.6	438.6	452.6
62.5°	447.2	404.0	358.1	378.0	394.7
65°	384.7	338.8	290.2	329.4	352.1
67.5°	330.1	287.5	240.9	293.5	315.5
70°	284.8	250.2	205.0	260.2	284.8
72.5°	248.9	217.0	181.7	233.6	262.2
75°	215.6	187.0	165.1	205.6	237.6
77.5°	187.0	159.1	149.1	181.7	213.0
80°	157.1	131.8	130.4	158.4	181.7
82.5°	122.5	105.2	105.2	132.4	146.4
85°	86.5	75.9	73.9	96.5	97.8
87.5°	44.6	42.6	38.6	50.6	50.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)