

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: P293490

Luminaire Tested: **24GR-LD5-42-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293490
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-5000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4367.0 lumens
Efficiency: N/A
Efficacy: 152.5 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

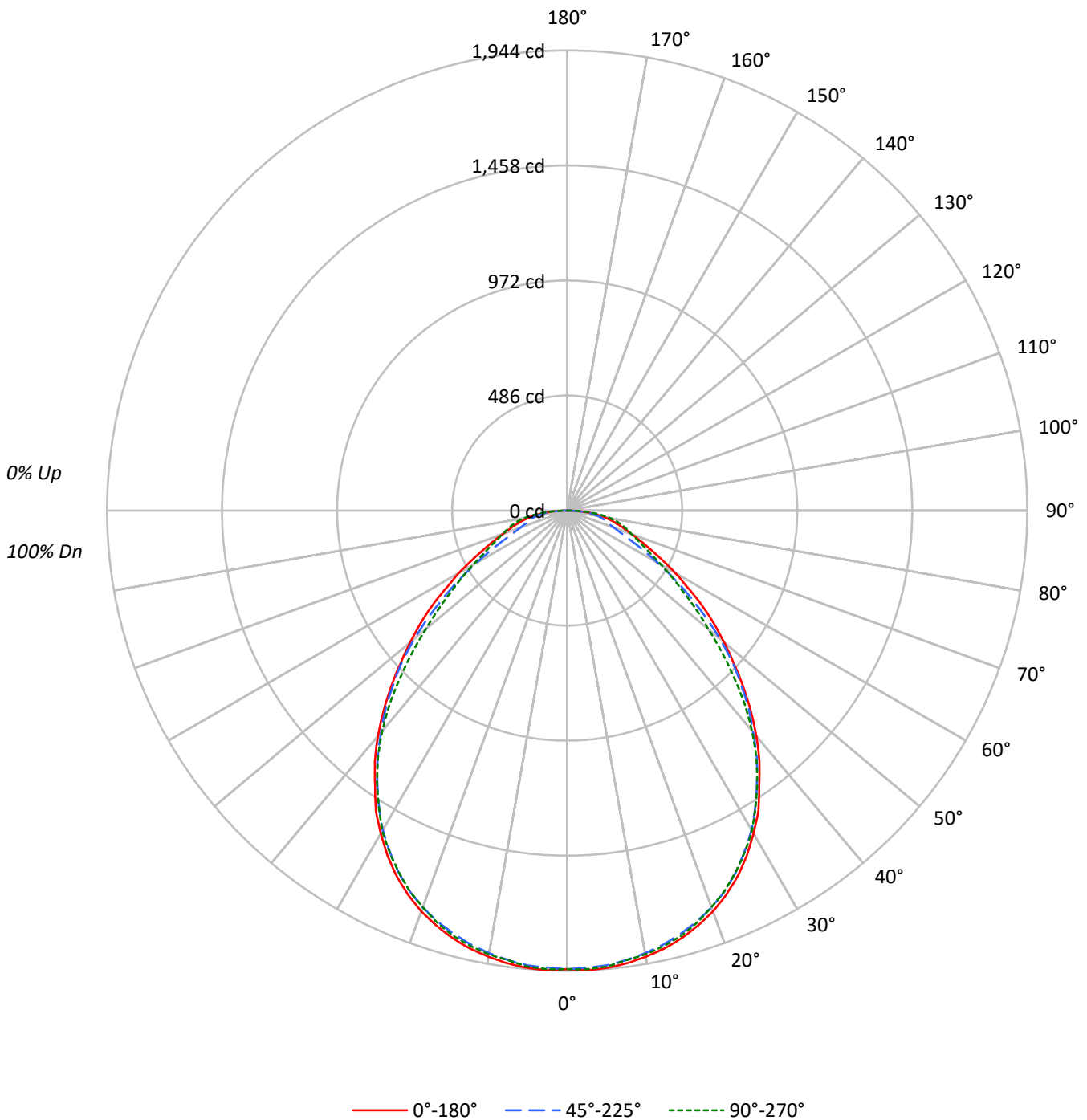
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2607	2607	2607
5°	2620	2605	2611
10°	2615	2594	2601
15°	2605	2579	2590
20°	2580	2554	2553
25°	2530	2503	2501
30°	2446	2421	2426
35°	2324	2297	2301
40°	2185	2147	2134
45°	2003	1976	1897
50°	1810	1761	1628
55°	1625	1480	1404
60°	1423	1191	1235
65°	1241	936	1136
70°	1136	817	1136
75°	1136	870	1252
80°	1234	1024	1427
85°	1354	1156	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	4.2
10°-20°	523.6	12.0
20°-30°	776.4	17.8
30°-40°	875.9	20.1
40°-50°	793.3	18.2
50°-60°	572.3	13.1
60°-70°	341.7	7.8
70°-80°	211.2	4.8
80°-90°	89.0	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°	1483.5	34.0
0°-40°	2359.4	54.0
0°-60°	3725.1	85.3
0°-90°	4367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1938	1938	1938	1938	1938	
5°	1940	1937	1929	1927	1934	184
15°	1870	1859	1851	1852	1859	527
25°	1704	1695	1686	1680	1685	783
35°	1415	1413	1398	1399	1401	885
45°	1052	1046	1038	1013	997	811
55°	693	671	631	600	598	619
65°	390	343	294	334	357	392
75°	219	190	167	208	241	233
85°	88	77	75	98	99	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1937.6	1937.6	1937.6	1937.6	1937.6
2.5°	1944.3	1938.9	1932.2	1936.2	1939.6
5°	1939.6	1936.9	1928.8	1926.8	1933.5
7.5°	1929.5	1922.7	1915.3	1918.7	1916.0
10°	1914.0	1907.9	1898.5	1899.1	1903.9
12.5°	1895.1	1887.7	1877.5	1880.2	1884.3
15°	1870.1	1858.7	1851.2	1851.9	1859.3
17.5°	1838.4	1829.6	1820.2	1822.2	1825.6
20°	1802.0	1797.3	1783.8	1779.7	1783.1
22.5°	1756.1	1747.3	1739.9	1737.9	1738.6
25°	1704.2	1694.7	1685.9	1679.9	1684.6
27.5°	1643.4	1635.3	1623.9	1621.9	1625.9
30°	1574.6	1568.6	1558.4	1555.7	1561.8
32.5°	1504.5	1494.3	1480.2	1480.2	1481.5
35°	1414.7	1412.7	1398.5	1399.2	1400.6
37.5°	1333.8	1324.3	1316.2	1308.1	1312.2
40°	1244.0	1233.3	1222.5	1217.1	1215.0
42.5°	1147.6	1139.5	1134.8	1115.2	1110.5
45°	1052.4	1045.7	1038.3	1012.6	997.1
47.5°	955.3	954.0	947.9	902.7	887.2
50°	864.9	862.9	841.3	793.4	777.9
52.5°	779.2	765.7	737.4	690.2	687.5
55°	692.9	671.3	630.8	599.8	598.4
57.5°	601.8	576.1	535.0	518.1	526.9
60°	528.9	489.8	442.6	444.6	458.8
62.5°	453.4	409.5	363.0	383.2	400.1
65°	389.9	343.4	294.1	334.0	356.9
67.5°	334.6	291.4	244.2	297.5	319.8
70°	288.7	253.7	207.8	263.8	288.7
72.5°	252.3	219.9	184.2	236.8	265.8
75°	218.6	189.6	167.3	208.5	240.8
77.5°	189.6	161.2	151.1	184.2	215.9
80°	159.2	133.6	132.2	160.6	184.2
82.5°	124.1	106.6	106.6	134.3	148.4
85°	87.7	76.9	74.9	97.8	99.2
87.5°	45.2	43.2	39.1	51.3	51.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)