

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: P293623

Luminaire Tested: **24GR-LD5-48-A-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293623
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-LD5-48-A-UNV-L92765-W2A1-U-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (336) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4333.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

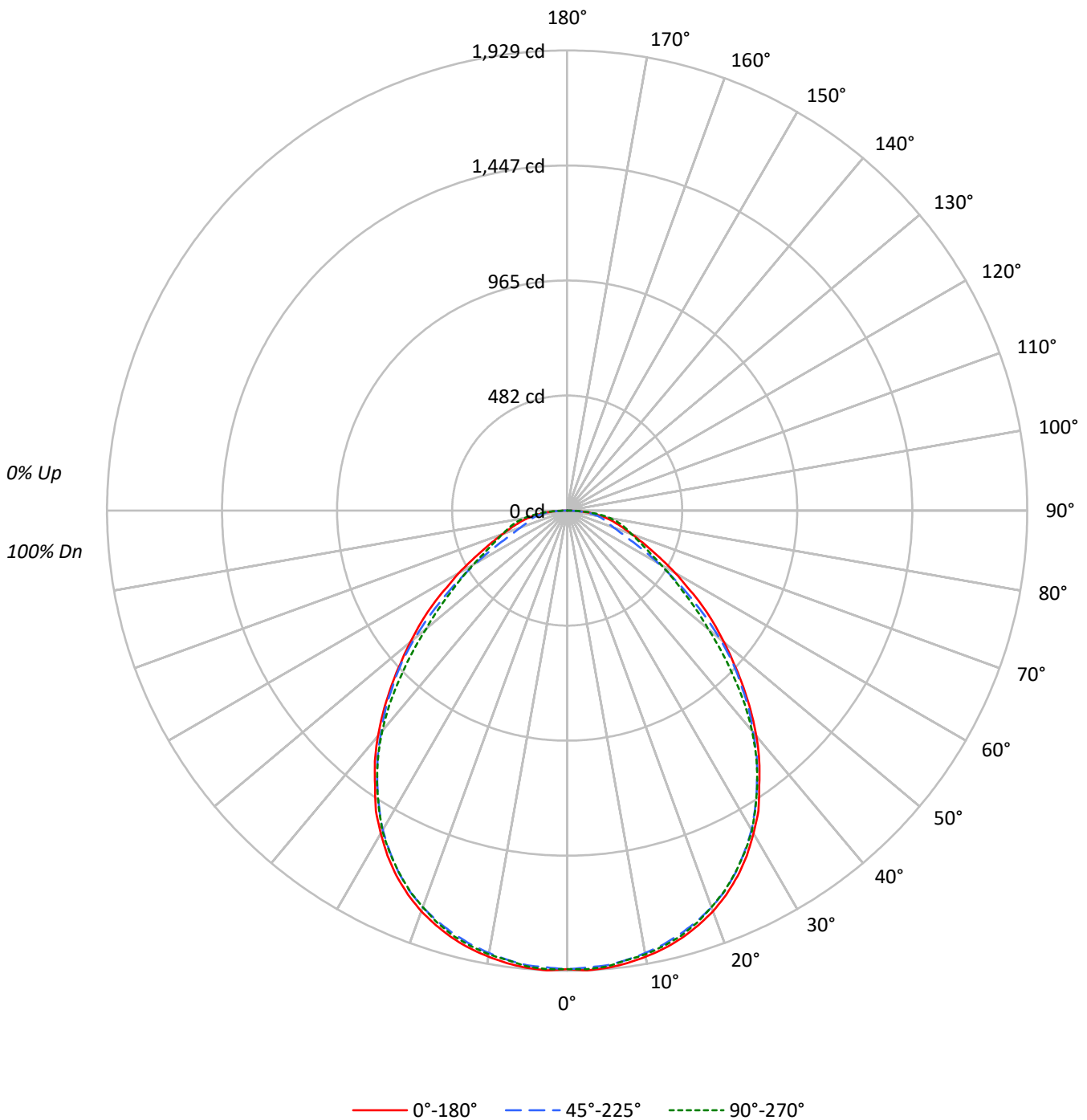
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2587	2587	2587
5°	2599	2585	2591
10°	2595	2574	2581
15°	2585	2559	2570
20°	2560	2534	2533
25°	2510	2483	2481
30°	2427	2402	2408
35°	2306	2279	2283
40°	2168	2130	2118
45°	1987	1960	1883
50°	1796	1747	1616
55°	1613	1468	1393
60°	1412	1182	1225
65°	1232	929	1127
70°	1127	811	1127
75°	1128	863	1242
80°	1224	1017	1416
85°	1343	1147	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	4.2
10°-20°	519.6	12.0
20°-30°	770.4	17.8
30°-40°	869.1	20.1
40°-50°	787.1	18.2
50°-60°	567.9	13.1
60°-70°	339.1	7.8
70°-80°	209.6	4.8
80°-90°	88.3	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°	1472.0	34.0
0°-40°	2341.1	54.0
0°-60°	3696.1	85.3
0°-90°	4333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1922	1922	1922	1922	1922	
5°	1924	1922	1914	1912	1918	183
15°	1856	1844	1837	1838	1845	523
25°	1691	1682	1673	1667	1672	777
35°	1404	1402	1388	1388	1390	878
45°	1044	1038	1030	1005	989	805
55°	688	666	626	595	594	614
65°	387	341	292	331	354	389
75°	217	188	166	207	239	232
85°	87	76	74	97	98	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1922.5	1922.5	1922.5	1922.5	1922.5
2.5°	1929.2	1923.8	1917.1	1921.2	1924.5
5°	1924.5	1921.8	1913.8	1911.8	1918.5
7.5°	1914.5	1907.8	1900.4	1903.8	1901.1
10°	1899.1	1893.0	1883.7	1884.3	1889.0
12.5°	1880.3	1873.0	1862.9	1865.6	1869.6
15°	1855.6	1844.2	1836.8	1837.5	1844.9
17.5°	1824.1	1815.4	1806.0	1808.0	1811.4
20°	1788.0	1783.3	1769.9	1765.9	1769.2
22.5°	1742.4	1733.7	1726.4	1724.4	1725.0
25°	1690.9	1681.5	1672.8	1666.8	1671.5
27.5°	1630.6	1622.6	1611.2	1609.2	1613.2
30°	1562.4	1556.3	1546.3	1543.6	1549.6
32.5°	1492.8	1482.7	1468.7	1468.7	1470.0
35°	1403.7	1401.7	1387.7	1388.3	1389.7
37.5°	1323.4	1314.0	1306.0	1298.0	1302.0
40°	1234.4	1223.7	1212.9	1207.6	1205.6
42.5°	1138.6	1130.6	1125.9	1106.5	1101.8
45°	1044.3	1037.6	1030.2	1004.8	989.4
47.5°	947.9	946.5	940.5	895.7	880.3
50°	858.2	856.2	834.7	787.2	771.8
52.5°	773.2	759.8	731.6	684.8	682.1
55°	687.5	666.0	625.9	595.1	593.8
57.5°	597.1	571.7	530.8	514.1	522.8
60°	524.8	486.0	439.1	441.1	455.2
62.5°	449.8	406.3	360.1	380.2	397.0
65°	386.9	340.7	291.9	331.4	354.1
67.5°	332.0	289.2	242.3	295.2	317.3
70°	286.5	251.7	206.2	261.7	286.5
72.5°	250.4	218.2	182.7	235.0	263.7
75°	216.9	188.1	166.0	206.8	239.0
77.5°	188.1	160.0	149.9	182.7	214.2
80°	158.0	132.5	131.2	159.3	182.7
82.5°	123.2	105.8	105.8	133.2	147.3
85°	87.0	76.3	74.3	97.1	98.4
87.5°	44.8	42.8	38.8	50.9	50.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)