

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: P293745

Luminaire Tested: **24GR-LD5-42-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293745
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33307)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4390.0 lumens
Efficiency: N/A
Efficacy: 150.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

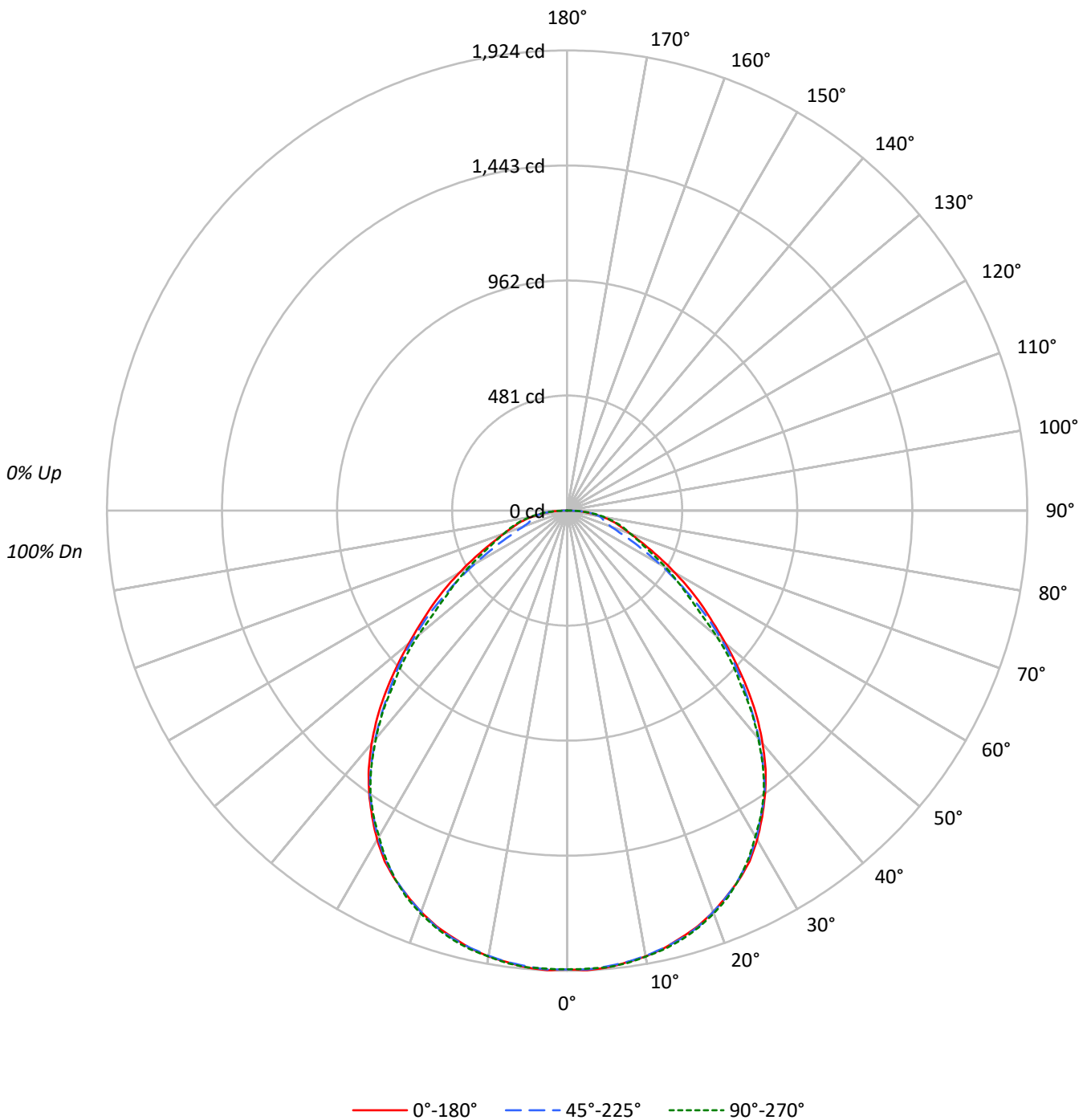
Input Watts (W): 29.202
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	99	96	93	95	93	90	91	90	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	2581	2581	2581
5°	2590	2584	2589
10°	2586	2582	2587
15°	2574	2579	2585
20°	2556	2556	2566
25°	2528	2522	2525
30°	2469	2456	2444
35°	2371	2365	2356
40°	2234	2193	2183
45°	2043	1987	1951
50°	1806	1770	1702
55°	1607	1497	1439
60°	1399	1198	1284
65°	1208	929	1136
70°	1102	760	1099
75°	1111	819	1168
80°	1157	1067	1231
85°	1206	1269	1363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.0	4.1
10°-20°	521.9	11.9
20°-30°	781.2	17.8
30°-40°	892.6	20.3
40°-50°	807.0	18.4
50°-60°	580.6	13.2
60°-70°	336.6	7.7
70°-80°	199.7	4.5
80°-90°	88.4	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°	1485.0	33.8
0°-40°	2377.7	54.2
0°-60°	3765.3	85.8
0°-90°	4390.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4390.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1918	1918	1918	1918	1918	
5°	1918	1915	1914	1911	1917	182
15°	1848	1851	1851	1849	1856	522
25°	1702	1700	1699	1696	1700	783
35°	1444	1437	1440	1422	1434	900
45°	1074	1055	1044	1035	1025	825
55°	685	672	638	622	614	613
65°	379	337	292	326	357	383
75°	214	179	158	194	225	226
85°	78	84	82	94	88	84
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1918.3	1918.3	1918.3	1918.3	1918.3
2.5°	1923.8	1916.9	1920.3	1918.3	1917.6
5°	1917.6	1914.9	1913.5	1910.7	1916.9
7.5°	1905.3	1903.2	1903.9	1904.6	1908.7
10°	1892.9	1889.5	1890.2	1891.6	1893.6
12.5°	1873.8	1871.7	1872.4	1873.8	1878.6
15°	1847.7	1851.2	1851.2	1849.1	1856.0
17.5°	1821.7	1821.0	1824.5	1818.3	1827.9
20°	1785.4	1786.1	1785.4	1786.1	1792.3
22.5°	1744.3	1747.7	1745.7	1745.7	1752.5
25°	1702.5	1700.5	1699.1	1695.7	1700.5
27.5°	1652.6	1648.4	1645.0	1638.2	1641.6
30°	1588.9	1589.5	1580.6	1574.5	1573.1
32.5°	1517.6	1517.6	1509.4	1504.6	1508.7
35°	1443.7	1436.8	1439.6	1421.8	1434.1
37.5°	1363.5	1352.6	1346.4	1340.3	1344.4
40°	1271.8	1257.4	1248.5	1236.2	1243.0
42.5°	1175.2	1157.4	1146.4	1137.5	1140.3
45°	1073.9	1055.4	1044.4	1034.8	1025.2
47.5°	967.0	955.4	949.9	937.6	926.6
50°	862.9	858.8	845.8	835.5	812.9
52.5°	767.7	764.3	743.8	726.6	697.9
55°	684.9	671.8	638.3	621.8	613.6
57.5°	600.6	579.4	539.0	536.9	542.4
60°	519.8	493.8	445.2	456.1	477.3
62.5°	446.5	407.5	360.9	386.9	412.3
65°	379.4	336.9	291.7	326.0	356.8
67.5°	323.9	281.5	234.9	280.8	316.4
70°	280.1	237.0	193.1	245.9	279.4
72.5°	243.8	204.8	168.5	218.5	253.4
75°	213.7	178.7	157.5	194.5	224.6
77.5°	183.5	155.5	150.7	173.3	191.8
80°	149.3	136.3	137.7	152.0	158.9
82.5°	111.6	112.3	115.7	127.4	124.6
85°	78.1	84.2	82.2	94.5	88.3
87.5°	43.1	47.3	44.5	54.1	48.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)