

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: P293740

Luminaire Tested: **24GR-LD5-42-A125-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P293740
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-4000K
Description: GRLED 2x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (336) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4192.0 lumens
Efficiency: N/A
Efficacy: 147.8 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

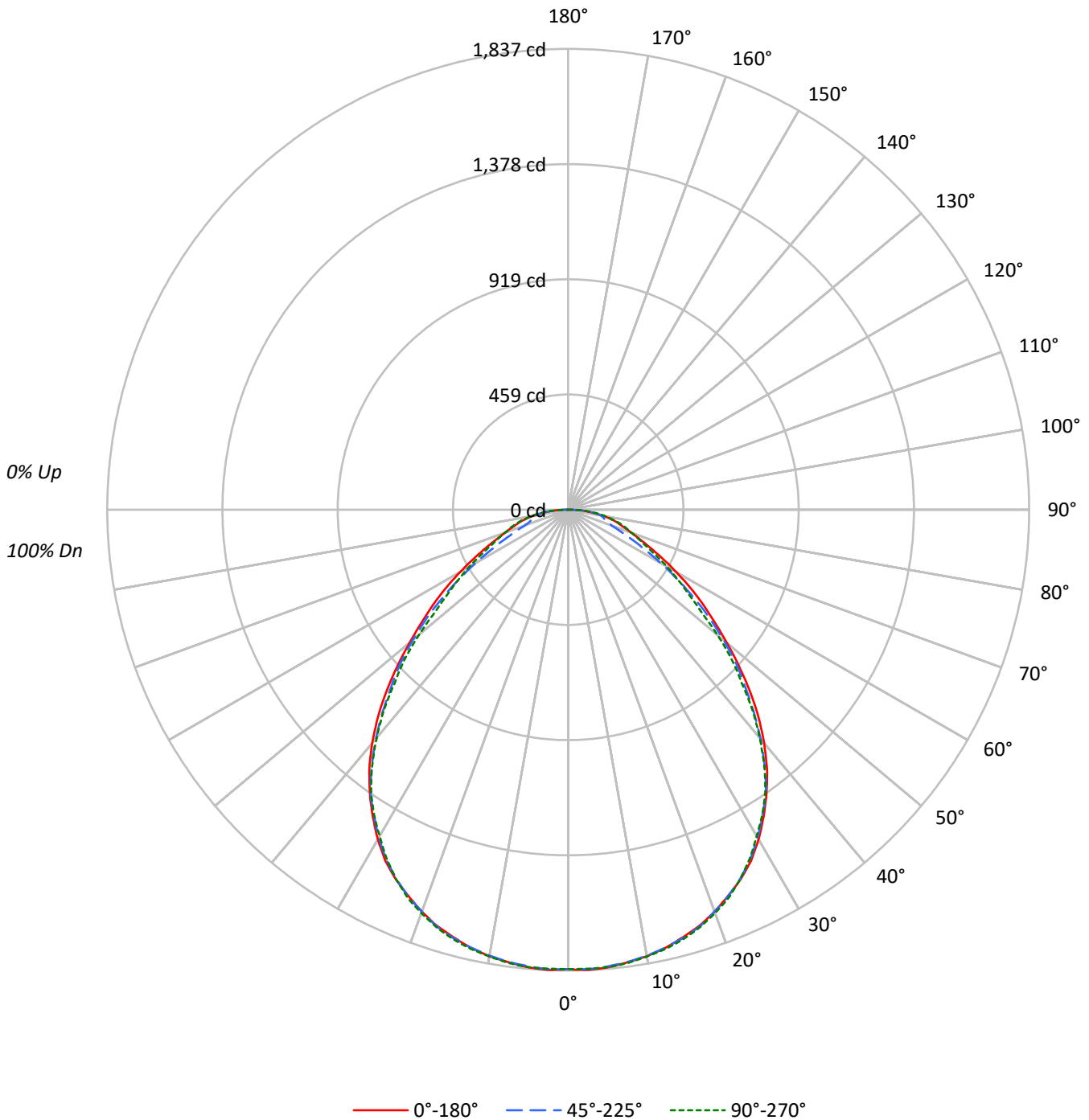
Input Watts (W): 28.365
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P293740

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P293740

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-4000K

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	100	96	99	96	93	95	93	90	91	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74					74			
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	64					64			
4	86	75	66	60	83	73	66	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	47	72	60	52	46	58	51	46	57	50	46	55	50	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°	2465	2465	2465
5°	2473	2468	2472
10°	2470	2466	2470
15°	2458	2462	2469
20°	2441	2441	2450
25°	2414	2409	2411
30°	2357	2345	2334
35°	2264	2258	2249
40°	2133	2094	2085
45°	1951	1898	1863
50°	1725	1690	1625
55°	1534	1430	1375
60°	1336	1144	1227
65°	1153	887	1085
70°	1052	725	1050
75°	1061	782	1115
80°	1105	1018	1175
85°	1152	1212	1303



TEST NUMBER: P293740

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	4.1
10°-20°	498.3	11.9
20°-30°	746.0	17.8
30°-40°	852.4	20.3
40°-50°	770.6	18.4
50°-60°	554.4	13.2
60°-70°	321.4	7.7
70°-80°	190.7	4.5
80°-90°	84.4	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°	1418.1	33.8
0°-40°	2270.4	54.2
0°-60°	3595.5	85.8
0°-90°	4192.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4192.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1832	1832	1832	1832	1832	
5°	1831	1828	1827	1825	1830	174
15°	1764	1768	1768	1766	1772	498
25°	1626	1624	1622	1619	1624	747
35°	1379	1372	1375	1358	1369	859
45°	1025	1008	997	988	979	788
55°	654	642	610	594	586	585
65°	362	322	279	311	341	366
75°	204	171	150	186	214	216
85°	75	80	78	90	84	80
90°	0	0	0	0	0	



TEST NUMBER: P293740

CATALOG NUMBER: 24GR-LD5-42-A125-UNV-L82765-W2A1-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1831.8	1831.8	1831.8	1831.8	1831.8
2.5°	1837.0	1830.5	1833.7	1831.8	1831.1
5°	1831.1	1828.5	1827.2	1824.6	1830.5
7.5°	1819.3	1817.4	1818.0	1818.7	1822.6
10°	1807.6	1804.3	1804.9	1806.3	1808.2
12.5°	1789.3	1787.3	1787.9	1789.3	1793.8
15°	1764.4	1767.7	1767.7	1765.7	1772.2
17.5°	1739.5	1738.9	1742.2	1736.3	1745.4
20°	1704.9	1705.5	1704.9	1705.5	1711.4
22.5°	1665.7	1668.9	1667.0	1667.0	1673.5
25°	1625.8	1623.8	1622.5	1619.2	1623.8
27.5°	1578.0	1574.1	1570.8	1564.3	1567.6
30°	1517.2	1517.9	1509.4	1503.5	1502.2
32.5°	1449.2	1449.2	1441.3	1436.8	1440.7
35°	1378.6	1372.0	1374.6	1357.6	1369.4
37.5°	1302.0	1291.6	1285.7	1279.8	1283.7
40°	1214.4	1200.7	1192.2	1180.4	1186.9
42.5°	1122.2	1105.2	1094.7	1086.2	1088.9
45°	1025.4	1007.8	997.3	988.1	979.0
47.5°	923.4	912.3	907.1	895.3	884.8
50°	824.0	820.1	807.6	797.8	776.3
52.5°	733.1	729.8	710.2	693.9	666.4
55°	654.0	641.5	609.5	593.8	586.0
57.5°	573.5	553.3	514.7	512.7	517.9
60°	496.4	471.5	425.1	435.5	455.8
62.5°	426.4	389.1	344.6	369.5	393.7
65°	362.3	321.8	278.6	311.3	340.7
67.5°	309.3	268.8	224.3	268.1	302.1
70°	267.5	226.3	184.4	234.8	266.8
72.5°	232.8	195.5	160.9	208.6	242.0
75°	204.0	170.7	150.4	185.7	214.5
77.5°	175.3	148.5	143.9	165.5	183.1
80°	142.6	130.1	131.4	145.2	151.7
82.5°	106.6	107.3	110.5	121.6	119.0
85°	74.6	80.4	78.5	90.2	84.4
87.5°	41.2	45.1	42.5	51.7	46.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)