

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: P292406

Luminaire Tested: **22GR-LD5-40-A125-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292406  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33297)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 22GR-LD5-40-A125-UNV-L82765-W2A1-U-5000K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4178.0 lumens  
Efficiency: N/A  
Efficacy: 126.2 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.22 / 1.24  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

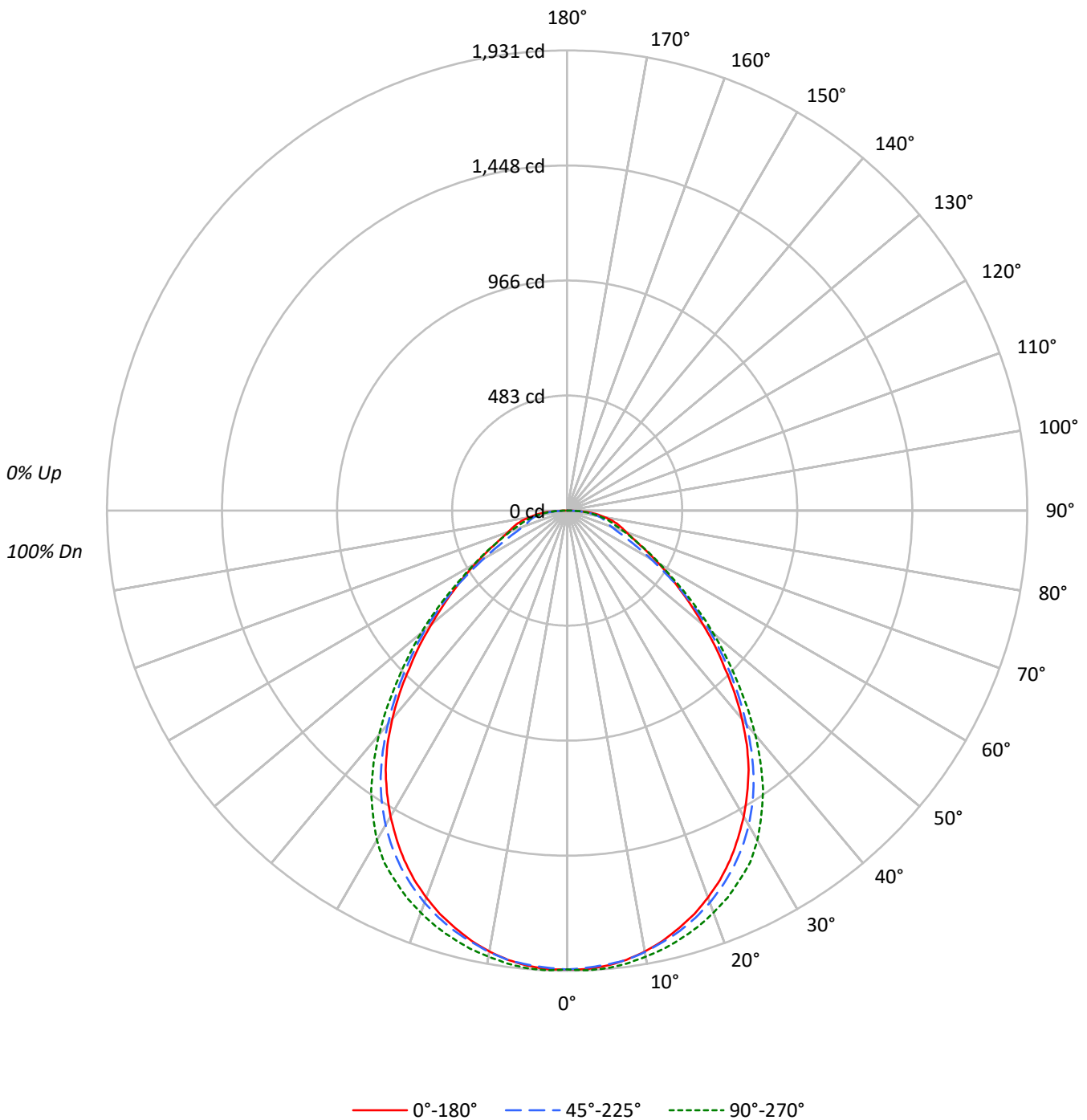
Input Watts (W): 33.108  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	98	107	103	100	96	99	96	93	95	93	91	92	90	88	86
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
6	74	61	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	52	46	41	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	34	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	29

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5183	5183	5183
5°	5179	5165	5207
10°	5135	5140	5193
15°	5053	5088	5175
20°	4949	5013	5141
25°	4804	4902	5082
30°	4604	4734	4961
35°	4362	4483	4710
40°	4011	4110	4315
45°	3562	3692	3826
50°	3112	3255	3352
55°	2706	2742	2843
60°	2380	2181	2427
65°	2115	1743	2127
70°	2077	1548	1962
75°	2269	1702	2006
80°	2490	2022	2143
85°	2976	2347	2405



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	182.0	4.4
10°-20°	516.2	12.4
20°-30°	762.0	18.2
30°-40°	852.7	20.4
40°-50°	748.8	17.9
50°-60°	529.8	12.7
60°-70°	308.4	7.4
70°-80°	192.2	4.6
80°-90°	86.0	2.1
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°	1460.2	34.9
0°-40°	2312.8	55.4
0°-60°	3591.4	86.0
0°-90°	4178.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4178.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1926	1926	1926	1926	1926	
5°	1917	1912	1912	1922	1928	182
15°	1814	1818	1826	1846	1858	511
25°	1618	1625	1651	1690	1712	743
35°	1328	1334	1365	1406	1434	826
45°	936	947	970	994	1005	724
55°	577	588	584	595	606	521
65°	332	306	274	298	334	337
75°	218	188	164	168	193	228
85°	96	100	76	74	78	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1925.9	1925.9	1925.9	1925.9	1925.9
2.5°	1925.9	1922.0	1920.0	1926.8	1930.7
5°	1917.1	1912.2	1912.2	1922.0	1927.8
7.5°	1901.5	1896.6	1902.5	1911.2	1917.1
10°	1879.1	1877.1	1881.0	1892.7	1900.5
12.5°	1849.9	1850.8	1854.7	1873.2	1883.0
15°	1813.8	1817.7	1826.5	1846.0	1857.7
17.5°	1774.9	1777.8	1791.4	1813.8	1830.4
20°	1728.1	1733.9	1750.5	1778.8	1795.3
22.5°	1676.5	1683.3	1703.7	1737.8	1758.3
25°	1618.0	1624.8	1651.1	1690.1	1711.5
27.5°	1551.8	1562.5	1591.7	1634.6	1663.8
30°	1481.6	1490.4	1523.5	1572.2	1596.6
32.5°	1406.6	1417.4	1448.5	1495.3	1516.7
35°	1327.7	1333.6	1364.8	1405.7	1433.9
37.5°	1238.1	1241.0	1270.3	1308.3	1333.6
40°	1141.7	1143.6	1169.9	1206.0	1228.4
42.5°	1041.3	1042.3	1070.6	1097.8	1117.3
45°	936.1	946.9	970.2	993.6	1005.3
47.5°	841.6	849.4	870.9	891.3	902.0
50°	743.3	762.7	777.4	788.1	800.7
52.5°	658.5	675.1	679.0	691.6	702.3
55°	576.7	588.4	584.5	595.2	605.9
57.5°	507.5	501.7	489.0	507.5	521.2
60°	442.3	426.7	405.2	430.6	451.0
62.5°	383.8	358.5	332.2	357.5	391.6
65°	332.2	305.9	273.7	298.1	334.1
67.5°	293.2	265.9	227.9	252.3	288.3
70°	264.0	235.7	196.8	217.2	249.4
72.5°	240.6	210.4	176.3	190.0	217.2
75°	218.2	188.0	163.7	167.6	192.9
77.5°	191.9	169.5	150.0	148.1	167.6
80°	160.7	153.9	130.5	127.6	138.3
82.5°	132.5	129.6	107.2	104.2	108.1
85°	96.4	100.3	76.0	74.0	77.9
87.5°	50.7	55.5	39.9	41.9	42.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)