

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: P292408

Luminaire Tested: **22GR-LD5-40-A125-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292408  
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-5700K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4231.0 lumens  
Efficiency: N/A  
Efficacy: 127.1 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

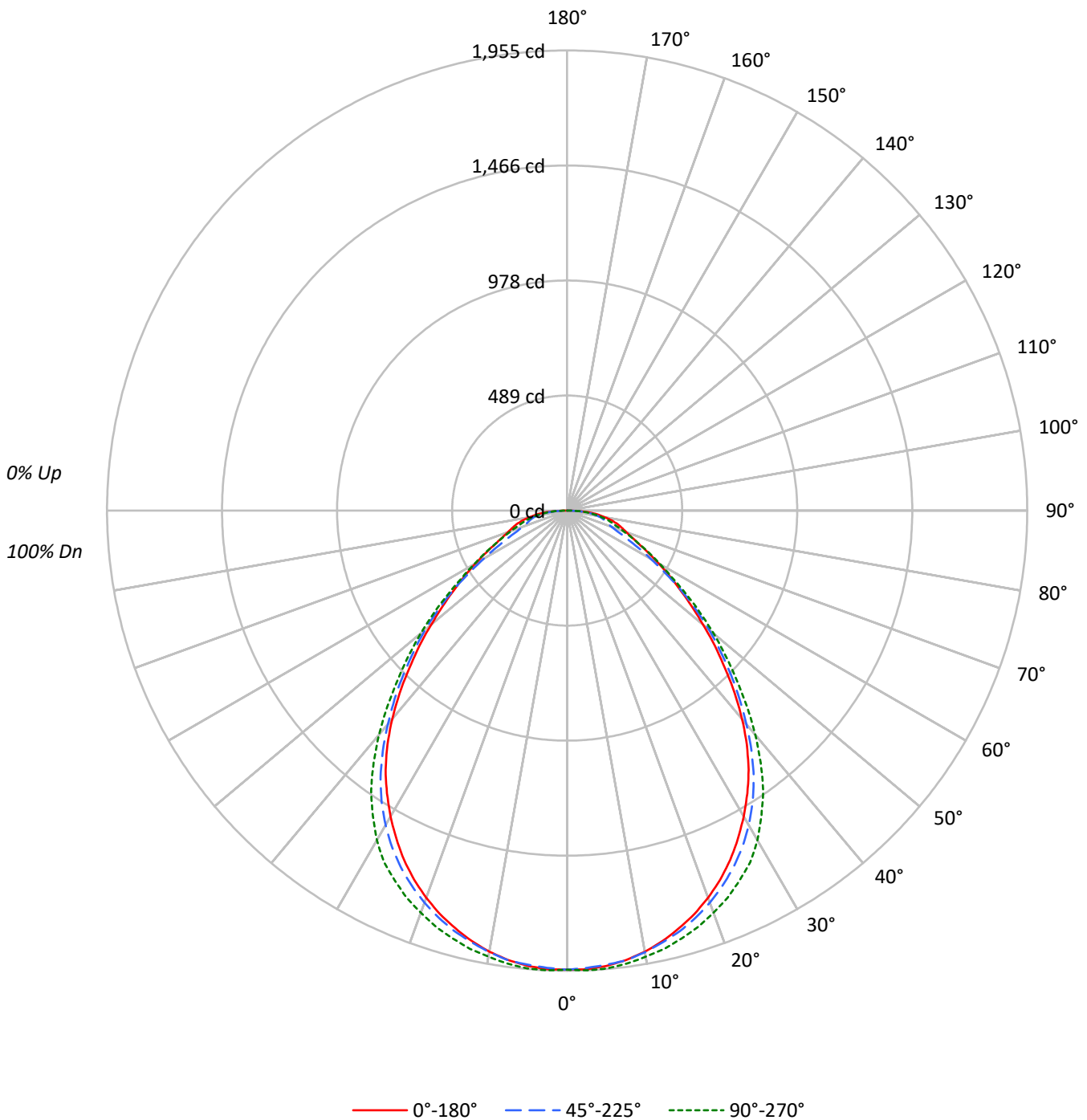
Input Watts (W): 33.294  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	5248	5248	5248
5°	5244	5231	5274
10°	5200	5205	5259
15°	5117	5153	5241
20°	5011	5076	5206
25°	4865	4965	5146
30°	4662	4794	5024
35°	4417	4540	4770
40°	4062	4162	4370
45°	3608	3739	3875
50°	3151	3296	3395
55°	2740	2777	2879
60°	2411	2209	2458
65°	2142	1765	2155
70°	2103	1568	1987
75°	2298	1723	2031
80°	2523	2049	2171
85°	3017	2374	2436



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	184.3	4.4
10°-20°	522.7	12.4
20°-30°	771.7	18.2
30°-40°	863.5	20.4
40°-50°	758.3	17.9
50°-60°	536.5	12.7
60°-70°	312.3	7.4
70°-80°	194.6	4.6
80°-90°	87.1	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°	1478.7	34.9
0°-40°	2342.2	55.4
0°-60°	3637.0	86.0
0°-90°	4231.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4231.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1950	1950	1950	1950	1950	
5°	1941	1936	1936	1946	1952	184
15°	1837	1841	1850	1869	1881	518
25°	1639	1646	1672	1712	1733	753
35°	1345	1350	1382	1424	1452	836
45°	948	959	982	1006	1018	733
55°	584	596	592	603	614	528
65°	336	310	277	302	338	341
75°	221	190	166	170	195	231
85°	98	102	77	75	79	99
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1950.3	1950.3	1950.3	1950.3	1950.3
2.5°	1950.3	1946.3	1944.4	1951.3	1955.2
5°	1941.4	1936.5	1936.5	1946.3	1952.3
7.5°	1925.6	1920.7	1926.6	1935.5	1941.4
10°	1902.9	1901.0	1904.9	1916.7	1924.6
12.5°	1873.3	1874.3	1878.3	1897.0	1906.9
15°	1836.8	1840.8	1849.7	1869.4	1881.2
17.5°	1797.4	1800.3	1814.1	1836.8	1853.6
20°	1750.0	1755.9	1772.7	1801.3	1818.1
22.5°	1697.7	1704.6	1725.4	1759.9	1780.6
25°	1638.6	1645.5	1672.1	1711.6	1733.3
27.5°	1571.5	1582.3	1611.9	1655.3	1684.9
30°	1500.4	1509.3	1542.9	1592.2	1616.8
32.5°	1424.5	1435.3	1466.9	1514.3	1536.0
35°	1344.6	1350.5	1382.1	1423.5	1452.1
37.5°	1253.8	1256.8	1286.4	1324.8	1350.5
40°	1156.2	1158.1	1184.8	1221.3	1244.0
42.5°	1054.6	1055.5	1084.1	1111.8	1131.5
45°	948.0	958.9	982.5	1006.2	1018.1
47.5°	852.3	860.2	881.9	902.6	913.5
50°	752.7	772.4	787.2	798.1	810.9
52.5°	666.9	683.6	687.6	700.4	711.3
55°	584.0	595.8	591.9	602.7	613.6
57.5°	514.0	508.0	495.2	514.0	527.8
60°	447.9	432.1	410.4	436.0	456.7
62.5°	388.7	363.0	336.4	362.0	396.6
65°	336.4	309.8	277.2	301.9	338.4
67.5°	296.9	269.3	230.8	255.5	292.0
70°	267.3	238.7	199.3	220.0	252.5
72.5°	243.7	213.1	178.6	192.4	220.0
75°	221.0	190.4	165.7	169.7	195.3
77.5°	194.3	171.6	151.9	149.9	169.7
80°	162.8	155.9	132.2	129.2	140.1
82.5°	134.2	131.2	108.5	105.6	109.5
85°	97.7	101.6	76.9	75.0	78.9
87.5°	51.3	56.2	40.4	42.4	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)