

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: P292407

Luminaire Tested: **22GR-LD5-40-A125-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292407  
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-5500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4220.0 lumens  
Efficiency: N/A  
Efficacy: 126.7 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

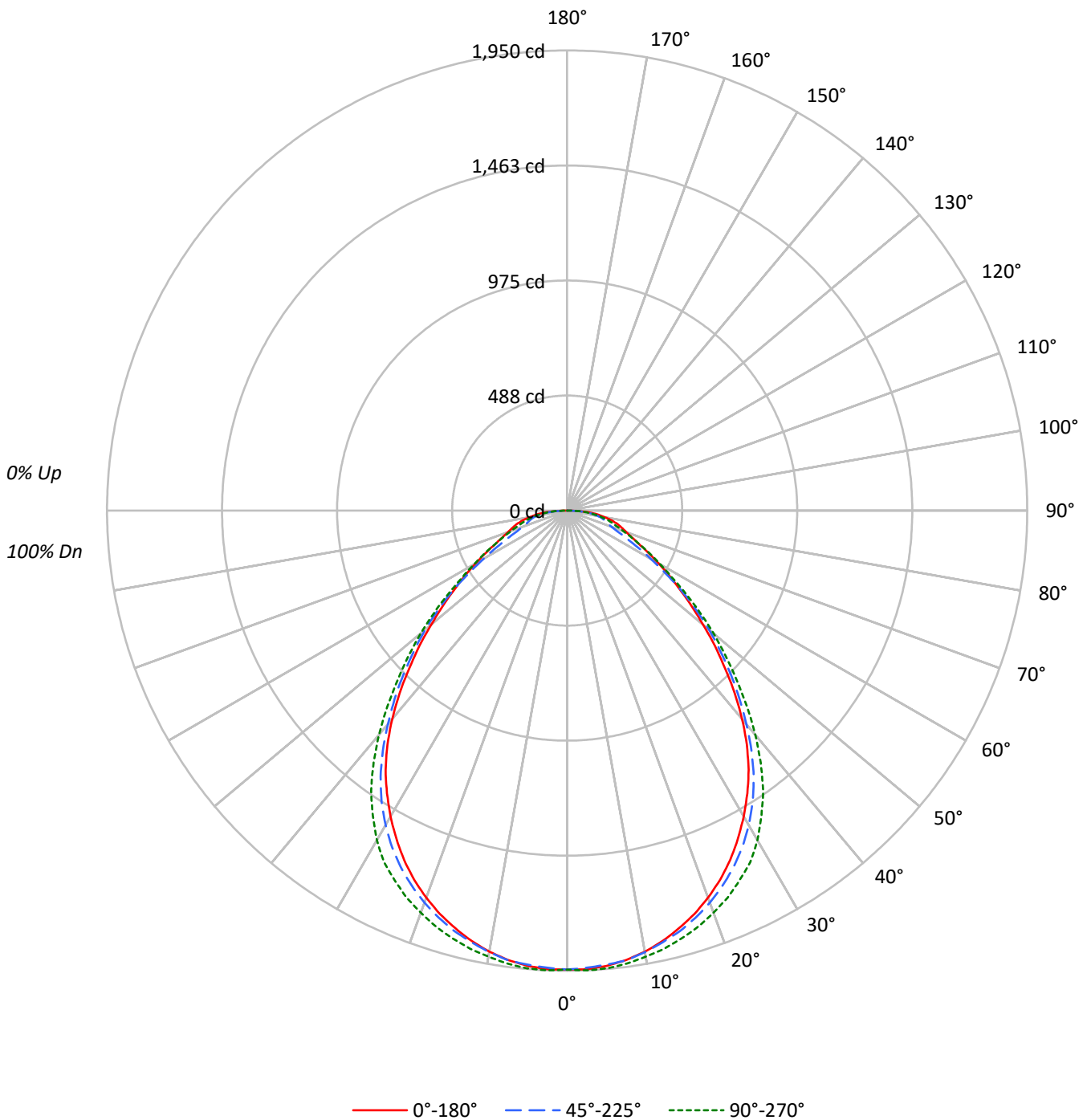
Input Watts (W): 33.294  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5234	5234	5234
5°	5231	5217	5260
10°	5186	5192	5245
15°	5104	5140	5227
20°	4999	5063	5193
25°	4853	4952	5133
30°	4650	4782	5011
35°	4406	4528	4758
40°	4051	4151	4358
45°	3598	3730	3864
50°	3143	3287	3386
55°	2733	2770	2871
60°	2404	2203	2452
65°	2136	1761	2149
70°	2098	1564	1982
75°	2292	1719	2025
80°	2515	2042	2165
85°	3007	2368	2430



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.8	4.4
10°-20°	521.4	12.4
20°-30°	769.6	18.2
30°-40°	861.2	20.4
40°-50°	756.3	17.9
50°-60°	535.2	12.7
60°-70°	311.5	7.4
70°-80°	194.1	4.6
80°-90°	86.9	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°	1474.8	34.9
0°-40°	2336.1	55.4
0°-60°	3627.5	86.0
0°-90°	4220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4220.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1945	1945	1945	1945	1945	
5°	1936	1931	1931	1941	1947	184
15°	1832	1836	1845	1864	1876	516
25°	1634	1641	1668	1707	1729	751
35°	1341	1347	1378	1420	1448	834
45°	946	956	980	1004	1015	731
55°	582	594	590	601	612	526
65°	336	309	276	301	338	340
75°	220	190	165	169	195	230
85°	97	101	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°	1945.2	1945.2	1945.2	1945.2	1945.2
2.5°	1945.2	1941.3	1939.3	1946.2	1950.1
5°	1936.4	1931.4	1931.4	1941.3	1947.2
7.5°	1920.6	1915.7	1921.6	1930.5	1936.4
10°	1898.0	1896.0	1900.0	1911.8	1919.6
12.5°	1868.5	1869.4	1873.4	1892.1	1901.9
15°	1832.1	1836.0	1844.9	1864.5	1876.3
17.5°	1792.7	1795.7	1809.4	1832.1	1848.8
20°	1745.5	1751.4	1768.1	1796.6	1813.4
22.5°	1693.3	1700.2	1720.9	1755.3	1776.0
25°	1634.3	1641.2	1667.7	1707.1	1728.7
27.5°	1567.4	1578.2	1607.7	1651.0	1680.5
30°	1496.5	1505.4	1538.9	1588.0	1612.6
32.5°	1420.8	1431.6	1463.1	1510.3	1532.0
35°	1341.1	1347.0	1378.5	1419.8	1448.3
37.5°	1250.6	1253.5	1283.0	1321.4	1347.0
40°	1153.2	1155.1	1181.7	1218.1	1240.7
42.5°	1051.8	1052.8	1081.3	1108.9	1128.6
45°	945.5	956.4	980.0	1003.6	1015.4
47.5°	850.1	858.0	879.6	900.3	911.1
50°	750.7	770.4	785.2	796.0	808.8
52.5°	665.1	681.9	685.8	698.6	709.4
55°	582.5	594.3	590.4	601.2	612.0
57.5°	512.6	506.7	493.9	512.6	526.4
60°	446.7	431.0	409.3	434.9	455.6
62.5°	387.7	362.1	335.5	361.1	395.5
65°	335.5	309.0	276.5	301.1	337.5
67.5°	296.2	268.6	230.2	254.8	291.2
70°	266.6	238.1	198.8	219.4	251.9
72.5°	243.0	212.5	178.1	191.9	219.4
75°	220.4	189.9	165.3	169.2	194.8
77.5°	193.8	171.2	151.5	149.6	169.2
80°	162.3	155.5	131.8	128.9	139.7
82.5°	133.8	130.9	108.2	105.3	109.2
85°	97.4	101.3	76.7	74.8	78.7
87.5°	51.2	56.1	40.3	42.3	43.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)