

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: P292349

Luminaire Tested: **22GR-LD5-40-A125-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292349  
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-L83050-W2A1-U-4500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4302.0 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

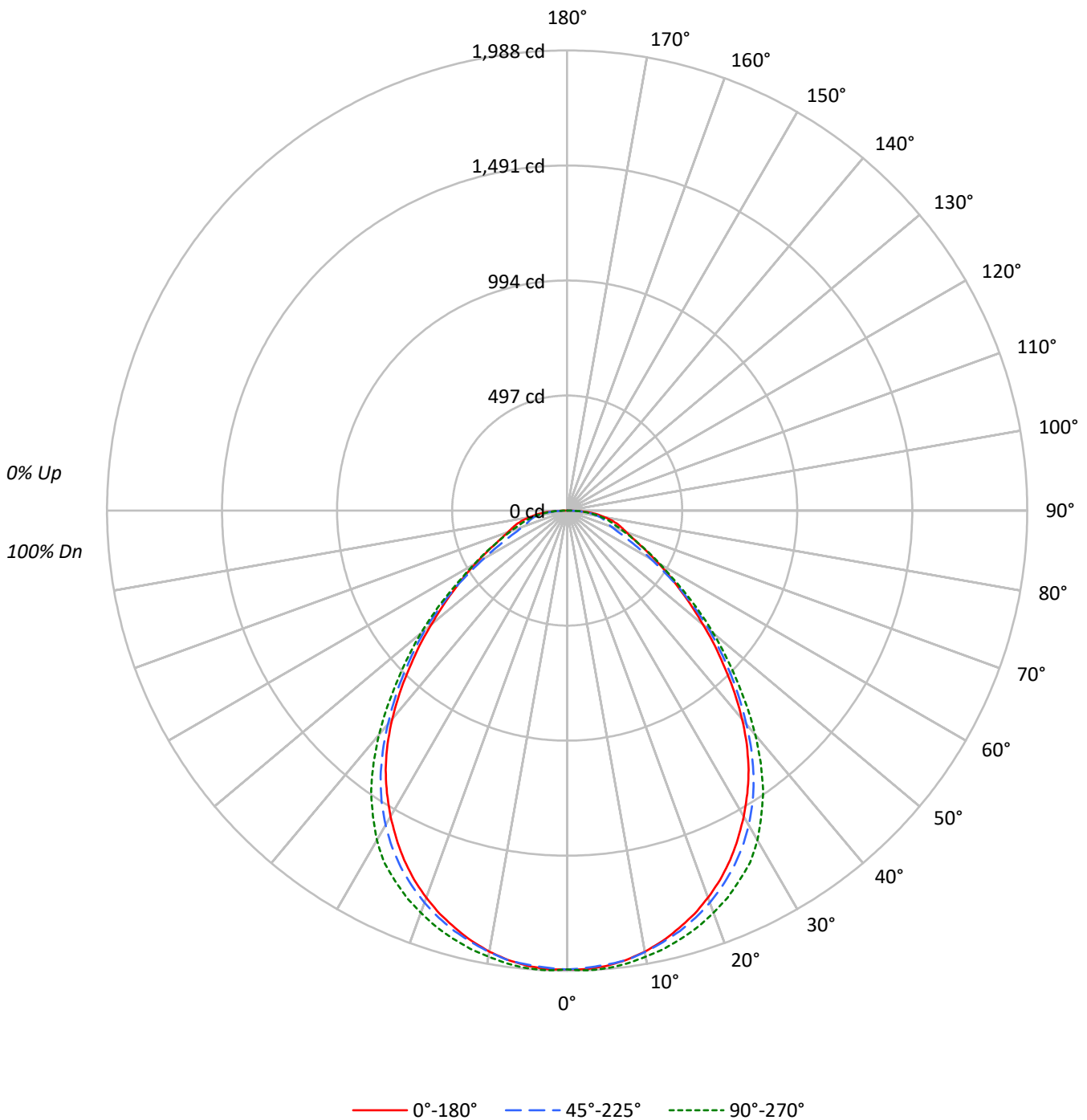
Input Watts (W): 33.945  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	5336	5336	5336
5°	5332	5319	5362
10°	5287	5293	5347
15°	5203	5239	5329
20°	5096	5162	5294
25°	4947	5048	5233
30°	4740	4875	5108
35°	4491	4617	4850
40°	4130	4232	4443
45°	3668	3802	3939
50°	3204	3351	3452
55°	2786	2823	2927
60°	2451	2246	2499
65°	2178	1795	2190
70°	2138	1594	2020
75°	2336	1752	2065
80°	2565	2083	2207
85°	3066	2414	2476



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.4	4.4
10°-20°	531.5	12.4
20°-30°	784.6	18.2
30°-40°	878.0	20.4
40°-50°	771.0	17.9
50°-60°	545.5	12.7
60°-70°	317.5	7.4
70°-80°	197.9	4.6
80°-90°	88.5	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°	1503.5	34.9
0°-40°	2381.5	55.4
0°-60°	3698.0	86.0
0°-90°	4302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4302.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1983	1983	1983	1983	1983	
5°	1974	1969	1969	1979	1985	187
15°	1868	1872	1881	1901	1913	526
25°	1666	1673	1700	1740	1762	765
35°	1367	1373	1405	1447	1476	850
45°	964	975	999	1023	1035	746
55°	594	606	602	613	624	537
65°	342	315	282	307	344	347
75°	225	194	168	172	199	235
85°	99	103	78	76	80	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1983.0	1983.0	1983.0	1983.0	1983.0
2.5°	1983.0	1979.0	1977.0	1984.0	1988.0
5°	1974.0	1969.0	1969.0	1979.0	1985.0
7.5°	1957.9	1952.9	1958.9	1968.0	1974.0
10°	1934.9	1932.9	1936.9	1948.9	1956.9
12.5°	1904.8	1905.8	1909.8	1928.8	1938.9
15°	1867.7	1871.7	1880.7	1900.8	1912.8
17.5°	1827.5	1830.5	1844.6	1867.7	1884.7
20°	1779.4	1785.4	1802.5	1831.5	1848.6
22.5°	1726.2	1733.3	1754.3	1789.4	1810.5
25°	1666.0	1673.1	1700.2	1740.3	1762.3
27.5°	1597.8	1608.9	1639.0	1683.1	1713.2
30°	1525.6	1534.7	1568.8	1618.9	1644.0
32.5°	1448.4	1459.4	1491.5	1539.7	1561.7
35°	1367.1	1373.2	1405.3	1447.4	1476.5
37.5°	1274.9	1277.9	1308.0	1347.1	1373.2
40°	1175.6	1177.6	1204.7	1241.8	1264.8
42.5°	1072.2	1073.3	1102.3	1130.4	1150.5
45°	963.9	975.0	999.0	1023.1	1035.1
47.5°	866.6	874.7	896.7	917.8	928.8
50°	765.3	785.4	800.4	811.5	824.5
52.5°	678.1	695.1	699.1	712.2	723.2
55°	593.8	605.8	601.8	612.9	623.9
57.5°	522.6	516.6	503.5	522.6	536.6
60°	455.4	439.3	417.3	443.3	464.4
62.5°	395.2	369.1	342.0	368.1	403.2
65°	342.0	315.0	281.9	306.9	344.0
67.5°	301.9	273.8	234.7	259.8	296.9
70°	271.8	242.7	202.6	223.7	256.8
72.5°	247.8	216.7	181.6	195.6	223.7
75°	224.7	193.6	168.5	172.5	198.6
77.5°	197.6	174.5	154.5	152.5	172.5
80°	165.5	158.5	134.4	131.4	142.4
82.5°	136.4	133.4	110.3	107.3	111.3
85°	99.3	103.3	78.2	76.2	80.2
87.5°	52.2	57.2	41.1	43.1	44.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)