

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: P292400

Luminaire Tested: **22GR-LD5-36-A125-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P292400  
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-LD5-36-A125-UNV-L82765-W2A1-U-6500K  
Description: GRLED 2x2 TUNABLE WHITE TROFFER  
WITH A125 LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3763.0 lumens  
Efficiency: N/A  
Efficacy: 128.5 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

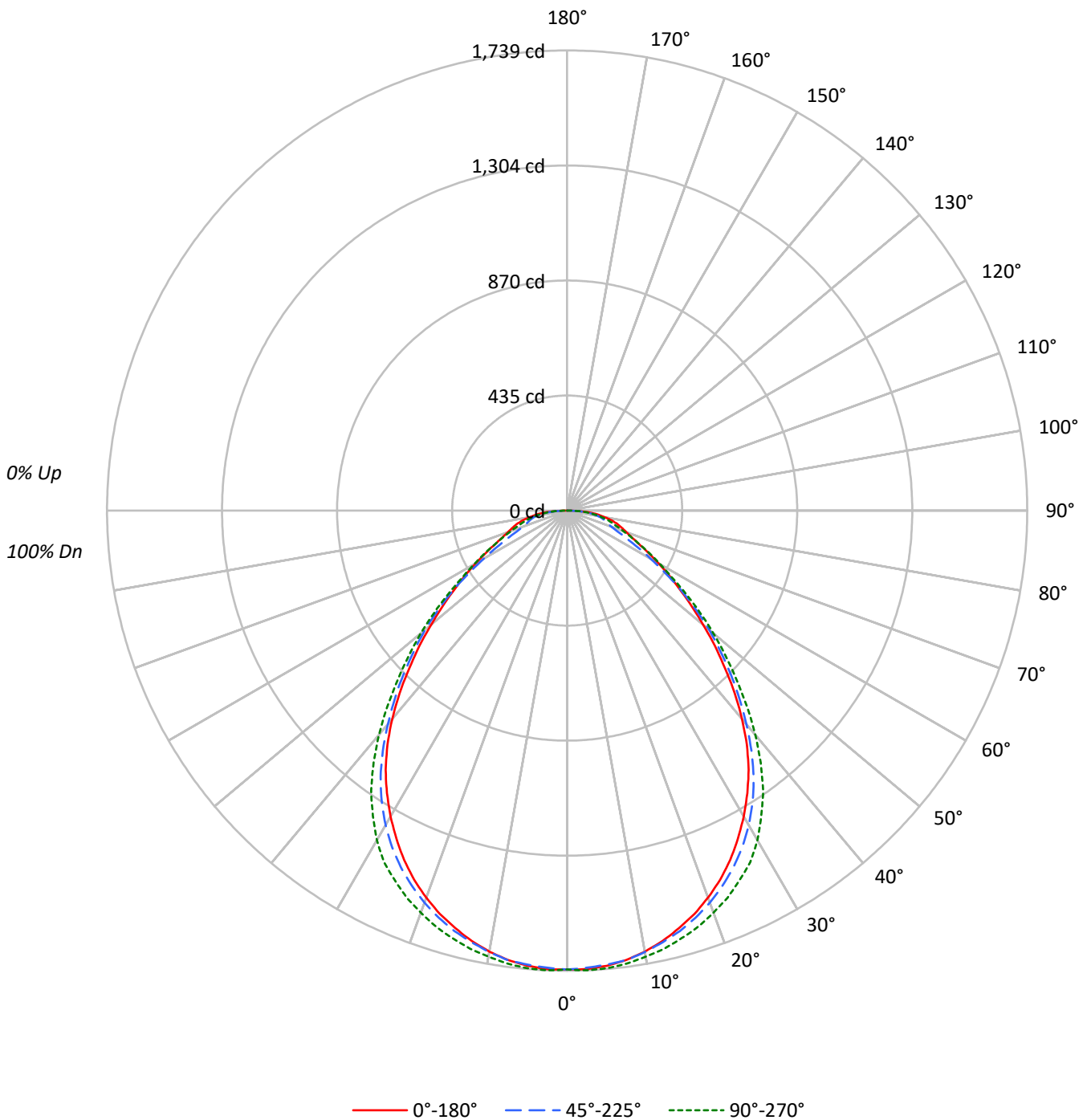
Input Watts (W): 29.295  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4668	4668	4668
5°	4664	4652	4690
10°	4624	4629	4677
15°	4551	4583	4661
20°	4457	4515	4631
25°	4327	4415	4577
30°	4147	4264	4468
35°	3929	4038	4243
40°	3612	3701	3887
45°	3209	3326	3446
50°	2802	2931	3019
55°	2437	2470	2560
60°	2144	1964	2186
65°	1905	1570	1916
70°	1871	1394	1767
75°	2043	1533	1806
80°	2244	1822	1931
85°	2683	2112	2167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	163.9	4.4
10°-20°	464.9	12.4
20°-30°	686.3	18.2
30°-40°	768.0	20.4
40°-50°	674.4	17.9
50°-60°	477.2	12.7
60°-70°	277.8	7.4
70°-80°	173.1	4.6
80°-90°	77.5	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°	1315.1	34.9
0°-40°	2083.1	55.4
0°-60°	3234.7	86.0
0°-90°	3763.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3763.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1735	1735	1735	1735	1735	
5°	1727	1722	1722	1731	1736	164
15°	1634	1637	1645	1663	1673	460
25°	1457	1463	1487	1522	1542	669
35°	1196	1201	1229	1266	1292	744
45°	843	853	874	895	905	652
55°	519	530	526	536	546	469
65°	299	276	246	268	301	303
75°	196	169	147	151	174	205
85°	87	90	68	67	70	88
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1734.6	1734.6	1734.6	1734.6	1734.6
2.5°	1734.6	1731.0	1729.3	1735.4	1738.9
5°	1726.7	1722.3	1722.3	1731.0	1736.3
7.5°	1712.6	1708.2	1713.5	1721.4	1726.7
10°	1692.4	1690.7	1694.2	1704.7	1711.7
12.5°	1666.1	1667.0	1670.5	1687.2	1696.0
15°	1633.7	1637.2	1645.1	1662.6	1673.1
17.5°	1598.6	1601.2	1613.5	1633.7	1648.6
20°	1556.5	1561.7	1576.6	1602.1	1617.0
22.5°	1510.0	1516.1	1534.5	1565.2	1583.6
25°	1457.3	1463.4	1487.1	1522.2	1541.5
27.5°	1397.6	1407.3	1433.6	1472.2	1498.5
30°	1334.5	1342.4	1372.2	1416.1	1438.0
32.5°	1266.9	1276.6	1304.6	1346.8	1366.1
35°	1195.9	1201.1	1229.2	1266.0	1291.5
37.5°	1115.1	1117.8	1144.1	1178.3	1201.1
40°	1028.3	1030.0	1053.7	1086.2	1106.4
42.5°	937.9	938.8	964.2	988.8	1006.3
45°	843.2	852.8	873.9	894.9	905.4
47.5°	758.0	765.1	784.4	802.8	812.4
50°	669.4	687.0	700.1	709.8	721.2
52.5°	593.1	608.0	611.5	622.9	632.6
55°	519.4	529.9	526.4	536.1	545.7
57.5°	457.1	451.8	440.4	457.1	469.4
60°	398.3	384.3	365.0	387.8	406.2
62.5°	345.7	322.9	299.2	322.0	352.7
65°	299.2	275.5	246.5	268.5	300.9
67.5°	264.1	239.5	205.3	227.2	259.7
70°	237.8	212.3	177.2	195.7	224.6
72.5°	216.7	189.5	158.8	171.1	195.7
75°	196.5	169.3	147.4	150.9	173.7
77.5°	172.8	152.7	135.1	133.4	150.9
80°	144.8	138.6	117.6	114.9	124.6
82.5°	119.3	116.7	96.5	93.9	97.4
85°	86.9	90.4	68.4	66.7	70.2
87.5°	45.6	50.0	36.0	37.7	38.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)