

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: P292503

Luminaire Tested: **22GR-LD5-40-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292503
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-L92765-W2A1-U-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3677.0 lumens
Efficiency: N/A
Efficacy: 111.4 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

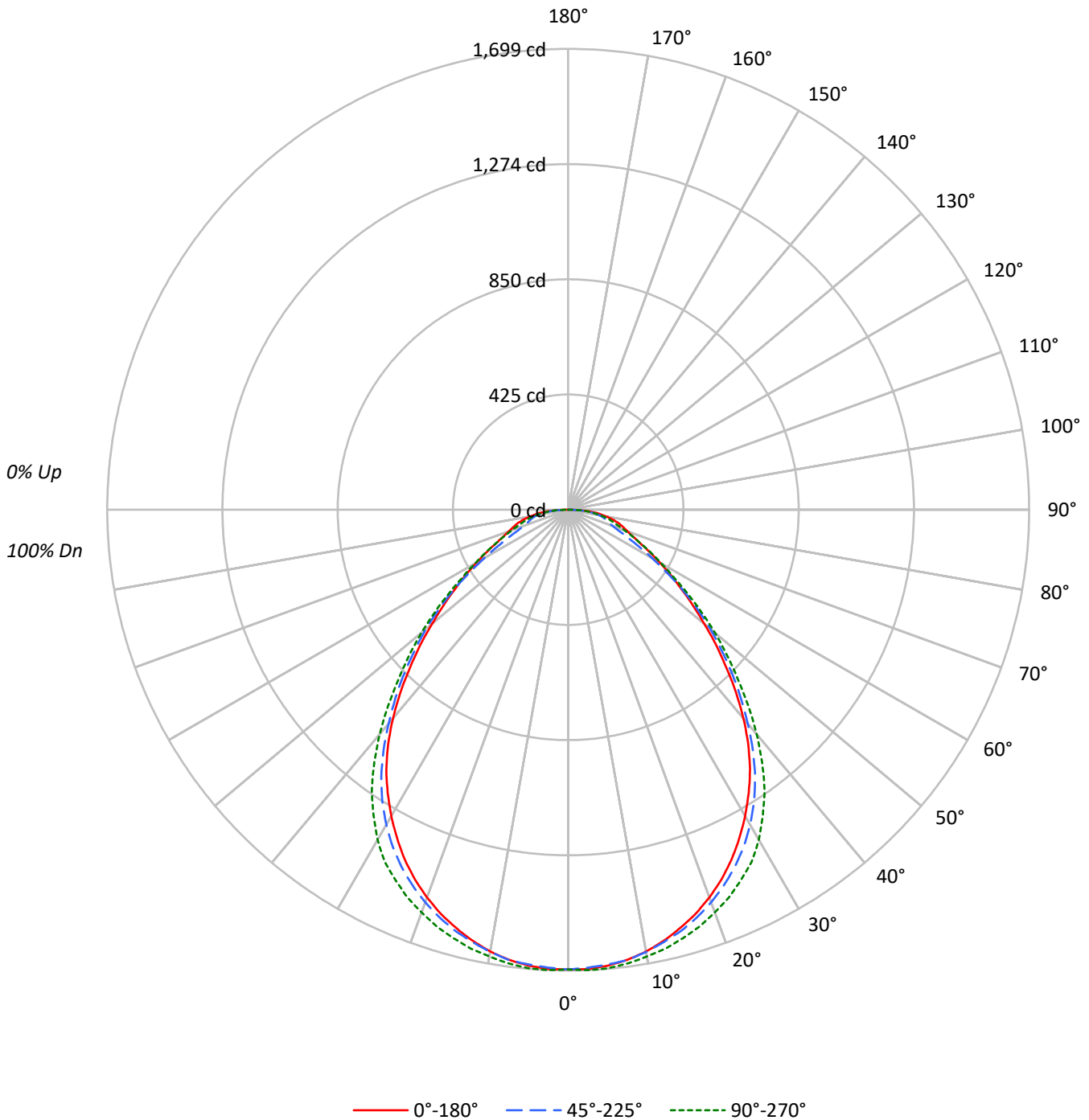
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4561	4561	4561
5°	4558	4546	4583
10°	4519	4524	4570
15°	4447	4478	4555
20°	4355	4412	4525
25°	4228	4315	4472
30°	4052	4166	4366
35°	3839	3946	4146
40°	3530	3617	3798
45°	3135	3250	3367
50°	2738	2864	2950
55°	2381	2413	2502
60°	2095	1919	2136
65°	1861	1534	1873
70°	1828	1363	1727
75°	1996	1497	1764
80°	2193	1781	1886
85°	2621	2066	2118



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.2	4.4
10°-20°	454.3	12.4
20°-30°	670.6	18.2
30°-40°	750.4	20.4
40°-50°	659.0	17.9
50°-60°	466.3	12.7
60°-70°	271.4	7.4
70°-80°	169.2	4.6
80°-90°	75.7	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°	1285.1	34.9
0°-40°	2035.5	55.4
0°-60°	3160.8	86.0
0°-90°	3677.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3677.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1695	1695	1695	1695	1695	
5°	1687	1683	1683	1692	1697	160
15°	1596	1600	1608	1625	1635	450
25°	1424	1430	1453	1487	1506	654
35°	1168	1174	1201	1237	1262	727
45°	824	833	854	874	885	637
55°	508	518	514	524	533	459
65°	292	269	241	262	294	297
75°	192	166	144	148	170	201
85°	85	88	67	65	69	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1694.9	1694.9	1694.9	1694.9	1694.9
2.5°	1694.9	1691.5	1689.8	1695.8	1699.2
5°	1687.2	1682.9	1682.9	1691.5	1696.6
7.5°	1673.5	1669.2	1674.3	1682.1	1687.2
10°	1653.8	1652.0	1655.5	1665.8	1672.6
12.5°	1628.0	1628.9	1632.3	1648.6	1657.2
15°	1596.3	1599.8	1607.5	1624.6	1634.9
17.5°	1562.0	1564.6	1576.6	1596.3	1610.9
20°	1520.9	1526.0	1540.6	1565.5	1580.0
22.5°	1475.4	1481.4	1499.4	1529.5	1547.5
25°	1424.0	1430.0	1453.2	1487.4	1506.3
27.5°	1365.7	1375.1	1400.9	1438.6	1464.3
30°	1304.0	1311.7	1340.8	1383.7	1405.1
32.5°	1238.0	1247.4	1274.8	1316.0	1334.8
35°	1168.5	1173.7	1201.1	1237.1	1262.0
37.5°	1089.6	1092.2	1117.9	1151.4	1173.7
40°	1004.8	1006.5	1029.6	1061.4	1081.1
42.5°	916.5	917.3	942.2	966.2	983.3
45°	823.9	833.3	853.9	874.5	884.8
47.5°	740.7	747.6	766.4	784.4	793.9
50°	654.1	671.3	684.1	693.6	704.7
52.5°	579.5	594.1	597.5	608.7	618.1
55°	507.5	517.8	514.4	523.8	533.3
57.5°	446.7	441.5	430.4	446.7	458.7
60°	389.2	375.5	356.6	378.9	396.9
62.5°	337.8	315.5	292.3	314.6	344.6
65°	292.3	269.2	240.9	262.3	294.1
67.5°	258.1	234.0	200.6	222.0	253.8
70°	232.3	207.5	173.2	191.2	219.5
72.5°	211.8	185.2	155.2	167.2	191.2
75°	192.0	165.5	144.0	147.5	169.7
77.5°	168.9	149.2	132.0	130.3	147.5
80°	141.5	135.5	114.9	112.3	121.7
82.5°	116.6	114.0	94.3	91.7	95.2
85°	84.9	88.3	66.9	65.2	68.6
87.5°	44.6	48.9	35.1	36.9	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)