

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: P292506

Luminaire Tested: **22GR-LD5-40-A125-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292506
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3826.0 lumens
Efficiency: N/A
Efficacy: 114.6 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

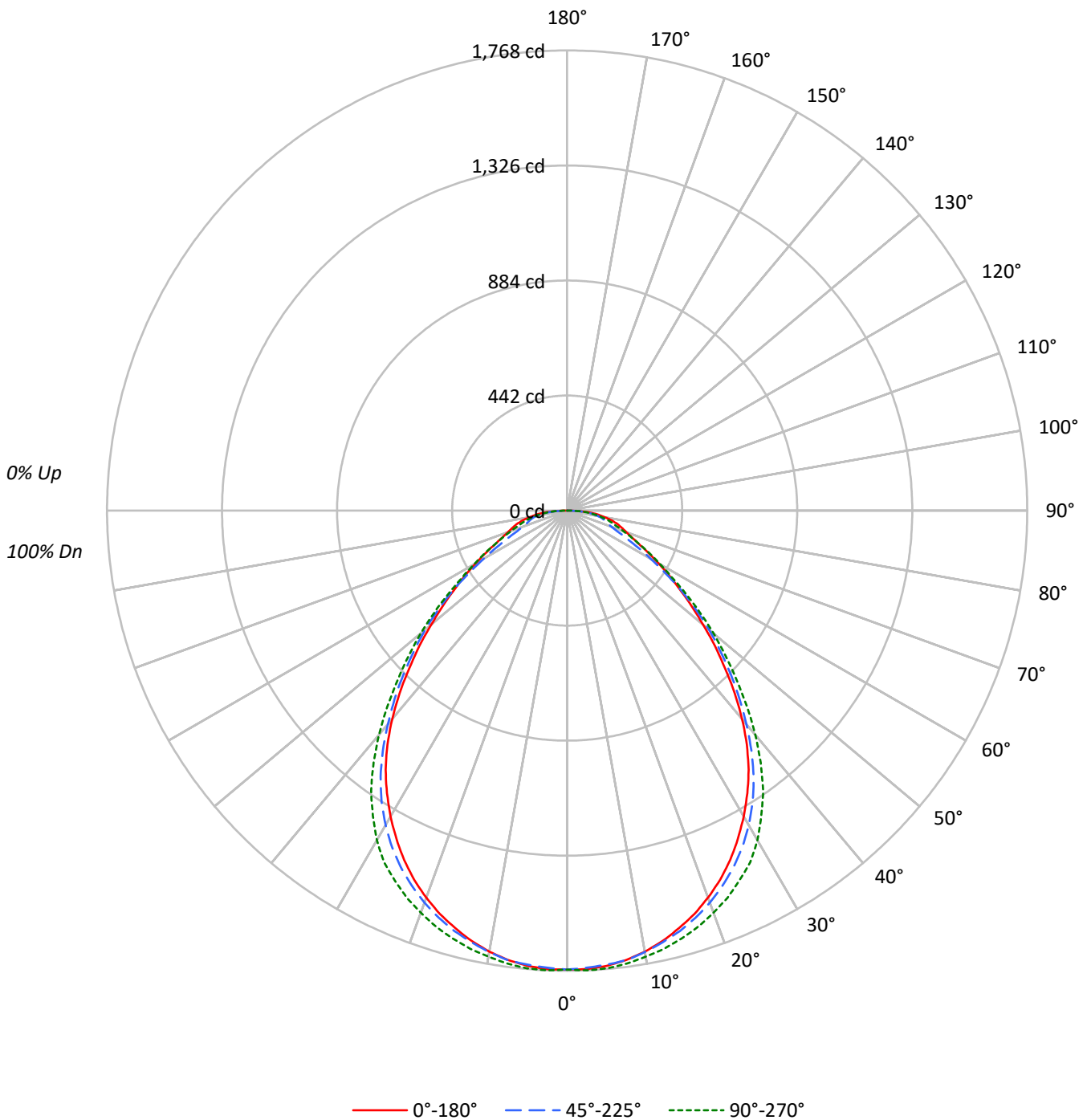
Input Watts (W): 33.387
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4746	4746	4746
5°	4742	4730	4769
10°	4702	4707	4756
15°	4627	4660	4739
20°	4532	4590	4708
25°	4399	4489	4654
30°	4216	4335	4543
35°	3994	4106	4314
40°	3673	3764	3952
45°	3263	3381	3503
50°	2849	2980	3070
55°	2478	2511	2603
60°	2180	1997	2223
65°	1937	1596	1948
70°	1902	1418	1797
75°	2077	1559	1836
80°	2281	1852	1963
85°	2726	2149	2205



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.7	4.4
10°-20°	472.7	12.4
20°-30°	697.8	18.2
30°-40°	780.8	20.4
40°-50°	685.7	17.9
50°-60°	485.2	12.7
60°-70°	282.4	7.4
70°-80°	176.0	4.6
80°-90°	78.8	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°	1337.1	34.9
0°-40°	2118.0	55.4
0°-60°	3288.8	86.0
0°-90°	3826.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3826.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1756	1751	1751	1760	1765	166
15°	1661	1665	1673	1690	1701	468
25°	1482	1488	1512	1548	1567	681
35°	1216	1221	1250	1287	1313	756
45°	857	867	888	910	921	663
55°	528	539	535	545	555	477
65°	304	280	251	273	306	309
75°	200	172	150	153	177	209
85°	88	92	70	68	71	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1763.6	1763.6	1763.6	1763.6	1763.6
2.5°	1763.6	1760.0	1758.2	1764.5	1768.1
5°	1755.6	1751.1	1751.1	1760.0	1765.4
7.5°	1741.3	1736.8	1742.2	1750.2	1755.6
10°	1720.8	1719.0	1722.6	1733.3	1740.4
12.5°	1694.0	1694.9	1698.5	1715.4	1724.3
15°	1661.0	1664.6	1672.6	1690.4	1701.2
17.5°	1625.3	1628.0	1640.5	1661.0	1676.2
20°	1582.5	1587.9	1603.0	1628.9	1644.1
22.5°	1535.2	1541.5	1560.2	1591.4	1610.2
25°	1481.7	1488.0	1512.0	1547.7	1567.3
27.5°	1421.0	1430.9	1457.6	1496.9	1523.6
30°	1356.8	1364.8	1395.2	1439.8	1462.1
32.5°	1288.1	1297.9	1326.5	1369.3	1388.9
35°	1215.9	1221.2	1249.8	1287.2	1313.1
37.5°	1133.8	1136.5	1163.2	1198.0	1221.2
40°	1045.5	1047.3	1071.4	1104.4	1124.9
42.5°	953.6	954.5	980.4	1005.3	1023.2
45°	857.3	867.1	888.5	909.9	920.6
47.5°	770.7	777.9	797.5	816.2	826.0
50°	680.6	698.5	711.9	721.7	733.3
52.5°	603.0	618.2	621.8	633.4	643.2
55°	528.1	538.8	535.2	545.0	554.9
57.5°	464.8	459.4	447.8	464.8	477.3
60°	405.0	390.7	371.1	394.3	413.0
62.5°	351.5	328.3	304.2	327.4	358.6
65°	304.2	280.1	250.7	273.0	306.0
67.5°	268.5	243.5	208.7	231.0	264.0
70°	241.7	215.9	180.2	198.9	228.4
72.5°	220.3	192.7	161.5	174.0	198.9
75°	199.8	172.2	149.9	153.4	176.6
77.5°	175.7	155.2	137.4	135.6	153.4
80°	147.2	140.9	119.5	116.9	126.7
82.5°	121.3	118.6	98.1	95.5	99.0
85°	88.3	91.9	69.6	67.8	71.4
87.5°	46.4	50.8	36.6	38.4	39.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)