

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: P292445

Luminaire Tested: **22GR-LD5-40-A125-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292445
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-L93050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3449.0 lumens
Efficiency: N/A
Efficacy: 104.5 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

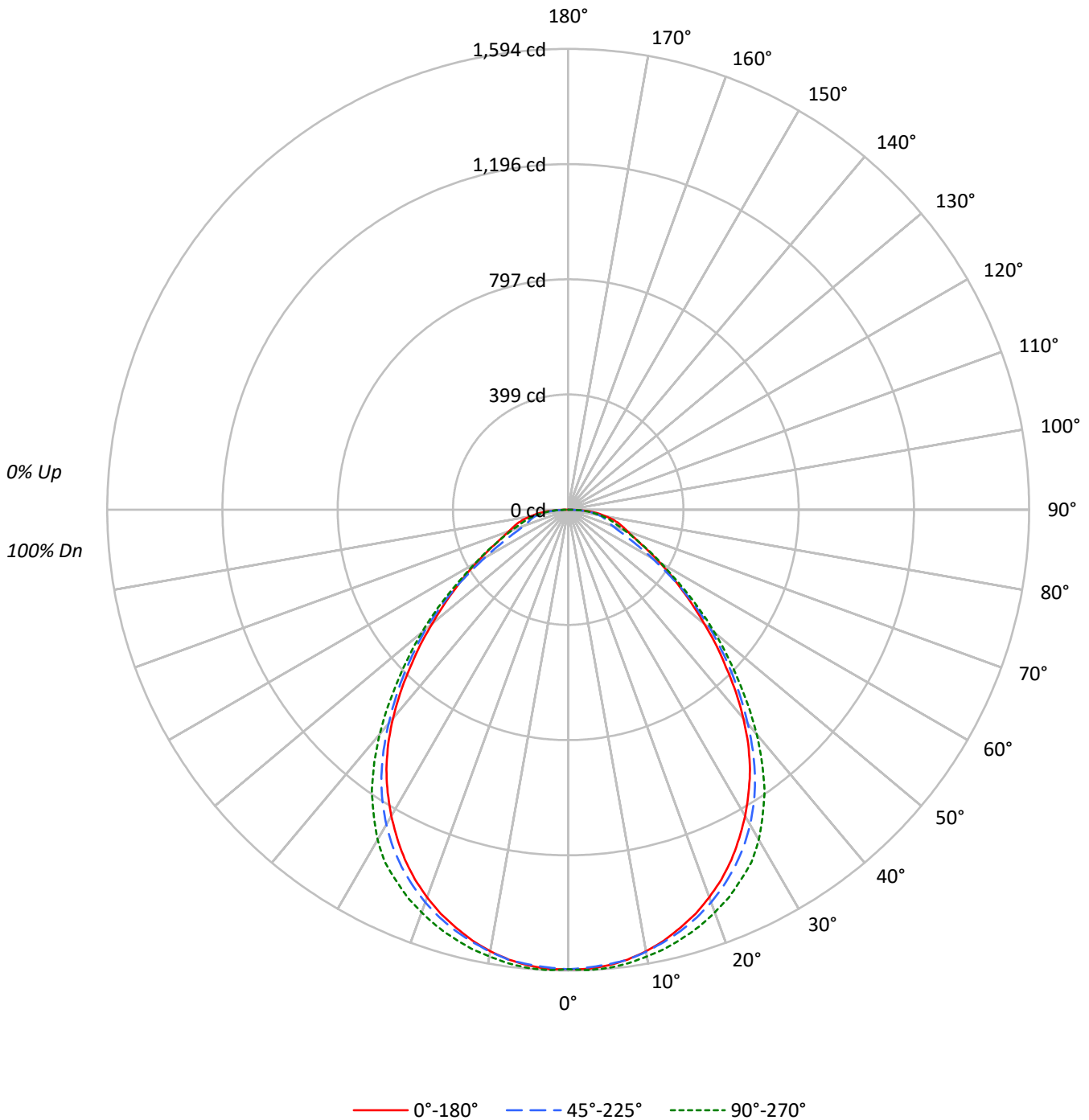
Input Watts (W): 33.015
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4278	4278	4278
5°	4275	4264	4299
10°	4239	4243	4287
15°	4171	4201	4272
20°	4085	4138	4244
25°	3966	4047	4195
30°	3801	3908	4095
35°	3601	3701	3889
40°	3311	3393	3562
45°	2941	3048	3158
50°	2569	2686	2767
55°	2234	2264	2347
60°	1965	1800	2004
65°	1746	1439	1756
70°	1714	1278	1620
75°	1873	1405	1655
80°	2056	1671	1770
85°	2458	1936	1985



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	4.4
10°-20°	426.1	12.4
20°-30°	629.0	18.2
30°-40°	703.9	20.4
40°-50°	618.1	17.9
50°-60°	437.4	12.7
60°-70°	254.6	7.4
70°-80°	158.6	4.6
80°-90°	71.0	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°	1205.4	34.9
0°-40°	1909.3	55.4
0°-60°	2964.8	86.0
0°-90°	3449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3449.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1590	1590	1590	1590	1590	
5°	1583	1579	1579	1587	1591	150
15°	1497	1501	1508	1524	1534	422
25°	1336	1341	1363	1395	1413	613
35°	1096	1101	1127	1160	1184	682
45°	773	782	801	820	830	598
55°	476	486	482	491	500	430
65°	274	252	226	246	276	278
75°	180	155	135	138	159	188
85°	80	83	63	61	64	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.8	1589.8	1589.8	1589.8	1589.8
2.5°	1589.8	1586.6	1585.0	1590.6	1593.8
5°	1582.6	1578.6	1578.6	1586.6	1591.4
7.5°	1569.7	1565.7	1570.5	1577.8	1582.6
10°	1551.2	1549.6	1552.8	1562.5	1568.9
12.5°	1527.1	1527.9	1531.1	1546.4	1554.4
15°	1497.3	1500.6	1507.8	1523.9	1533.5
17.5°	1465.2	1467.6	1478.8	1497.3	1511.0
20°	1426.6	1431.4	1445.1	1468.4	1482.1
22.5°	1384.0	1389.6	1406.5	1434.6	1451.5
25°	1335.7	1341.3	1363.0	1395.2	1412.9
27.5°	1281.0	1289.9	1314.0	1349.4	1373.5
30°	1223.1	1230.4	1257.7	1297.9	1318.0
32.5°	1161.2	1170.0	1195.8	1234.4	1252.1
35°	1096.1	1100.9	1126.6	1160.4	1183.7
37.5°	1022.1	1024.5	1048.6	1080.0	1100.9
40°	942.5	944.1	965.8	995.5	1014.0
42.5°	859.6	860.4	883.8	906.3	922.4
45°	772.8	781.6	800.9	820.2	829.9
47.5°	694.8	701.2	718.9	735.8	744.6
50°	613.6	629.7	641.7	650.6	661.0
52.5°	543.6	557.3	560.5	571.0	579.8
55°	476.1	485.7	482.5	491.3	500.2
57.5°	419.0	414.1	403.7	419.0	430.2
60°	365.1	352.2	334.5	355.4	372.3
62.5°	316.8	295.9	274.2	295.1	323.3
65°	274.2	252.5	226.0	246.1	275.8
67.5°	242.1	219.5	188.2	208.3	238.0
70°	217.9	194.6	162.4	179.3	205.9
72.5°	198.6	173.7	145.6	156.8	179.3
75°	180.1	155.2	135.1	138.3	159.2
77.5°	158.4	139.9	123.8	122.2	138.3
80°	132.7	127.1	107.8	105.3	114.2
82.5°	109.4	107.0	88.5	86.0	89.3
85°	79.6	82.8	62.7	61.1	64.3
87.5°	41.8	45.8	33.0	34.6	35.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)