

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: P292309

Luminaire Tested: **22GR-LD5-40-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3816.0 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

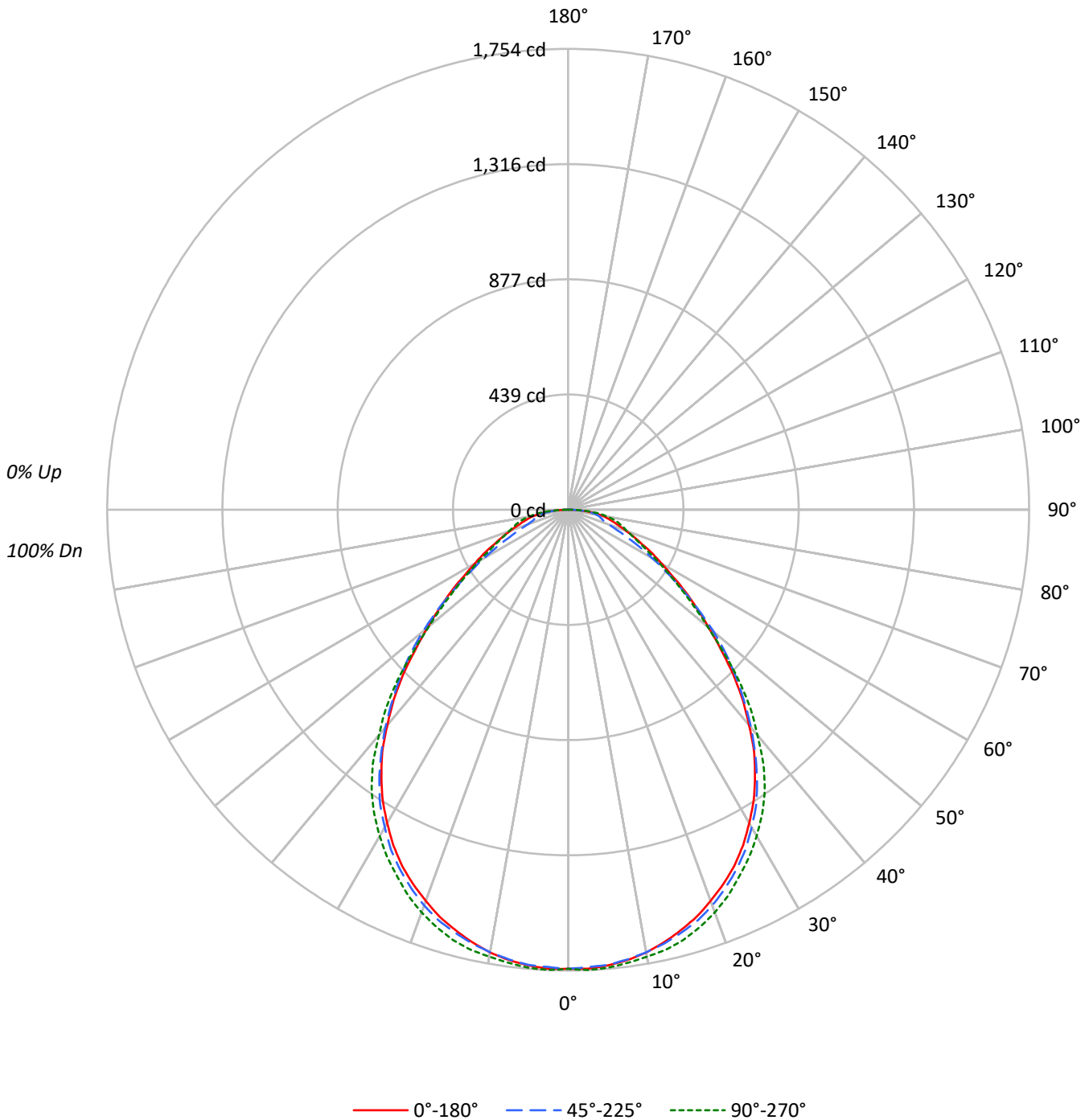
Input Watts (W): 33.294
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	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	53	46	42	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	35	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	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4703	4703	4703
5°	4704	4697	4726
10°	4676	4673	4720
15°	4616	4641	4723
20°	4537	4590	4672
25°	4440	4490	4572
30°	4280	4337	4456
35°	4070	4116	4282
40°	3762	3803	3937
45°	3379	3440	3494
50°	2922	3026	2892
55°	2550	2483	2449
60°	2208	1988	2122
65°	1973	1561	1906
70°	1831	1293	1880
75°	1828	1366	2087
80°	2022	1720	2352
85°	2112	1865	2658



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	4.3
10°-20°	471.0	12.3
20°-30°	696.6	18.3
30°-40°	786.1	20.6
40°-50°	693.0	18.2
50°-60°	475.4	12.5
60°-70°	280.5	7.4
70°-80°	175.1	4.6
80°-90°	73.0	1.9
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°	1333.0	34.9
0°-40°	2119.1	55.5
0°-60°	3287.4	86.1
0°-90°	3816.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3816.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1748	1748	1748	1748	1748	
5°	1741	1738	1739	1745	1749	165
15°	1657	1659	1666	1686	1695	467
25°	1495	1501	1512	1532	1540	687
35°	1239	1249	1253	1283	1304	772
45°	888	892	904	909	918	682
55°	544	530	529	512	522	488
65°	310	273	245	283	299	312
75°	176	158	131	184	201	189
85°	68	64	60	79	86	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1747.6	1747.6	1747.6	1747.6	1747.6
2.5°	1748.5	1744.0	1742.3	1749.4	1753.8
5°	1741.4	1737.8	1738.7	1744.9	1749.4
7.5°	1728.9	1726.3	1726.3	1735.2	1739.6
10°	1711.2	1710.3	1710.3	1720.9	1727.2
12.5°	1686.3	1687.2	1690.8	1705.0	1715.6
15°	1657.0	1658.8	1665.9	1686.3	1695.2
17.5°	1625.0	1625.0	1639.3	1655.2	1665.9
20°	1584.2	1586.9	1602.8	1620.6	1631.3
22.5°	1542.5	1546.9	1560.2	1580.6	1590.4
25°	1495.4	1500.7	1512.3	1531.8	1539.8
27.5°	1440.3	1447.4	1459.9	1474.1	1491.0
30°	1377.3	1387.9	1395.9	1415.5	1434.1
32.5°	1313.4	1323.1	1332.0	1352.4	1373.7
35°	1238.8	1249.4	1253.0	1283.2	1303.6
37.5°	1162.4	1166.8	1168.6	1198.8	1221.0
40°	1070.9	1079.8	1082.5	1106.5	1120.7
42.5°	983.0	986.6	991.9	1009.7	1026.5
45°	888.0	892.4	904.0	909.3	918.2
47.5°	788.5	801.9	815.2	798.3	799.2
50°	698.0	708.6	722.8	690.9	690.9
52.5°	617.2	622.5	623.4	596.7	602.1
55°	543.5	530.1	529.2	511.5	522.1
57.5°	469.8	452.0	445.8	440.4	452.9
60°	410.3	378.3	369.4	377.4	394.3
62.5°	361.4	320.6	303.7	324.1	339.2
65°	309.9	272.6	245.1	283.3	299.3
67.5°	270.0	234.4	198.9	253.1	264.6
70°	232.7	205.1	164.3	230.0	238.9
72.5°	202.5	181.2	142.1	207.8	218.4
75°	175.8	158.1	131.4	183.8	200.7
77.5°	154.5	135.0	122.5	159.0	179.4
80°	130.5	111.0	111.0	133.2	151.8
82.5°	103.0	87.0	89.7	108.3	121.7
85°	68.4	63.9	60.4	79.0	86.1
87.5°	34.6	35.5	32.0	40.8	41.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)