

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: P292151

Luminaire Tested: **22GR-LD5-40-A-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292151
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-L83050-W2A1-U-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4066.0 lumens
Efficiency: N/A
Efficacy: 125.6 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

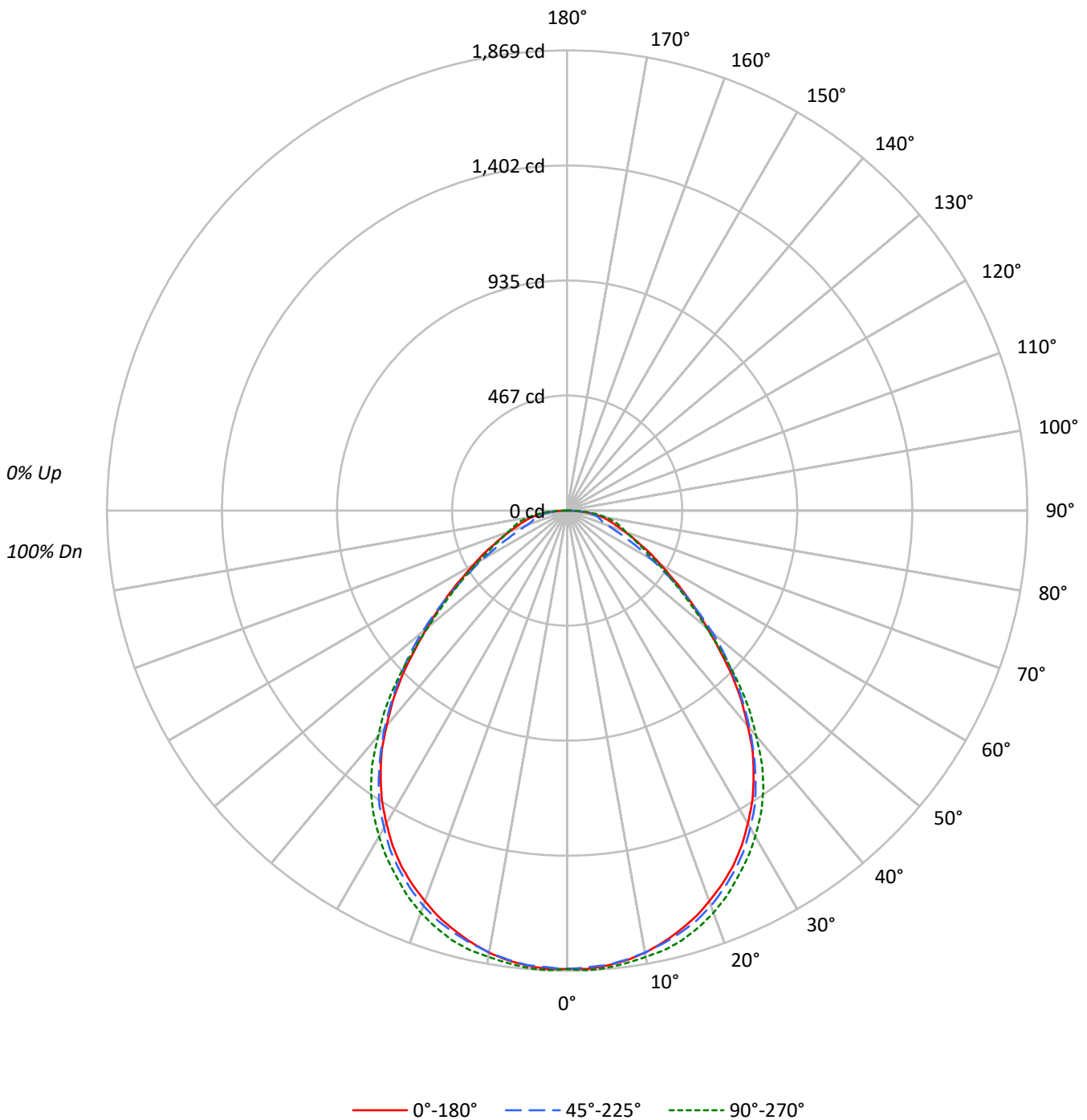
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5011	5011	5011
5°	5012	5004	5035
10°	4982	4979	5029
15°	4919	4945	5032
20°	4834	4891	4977
25°	4731	4784	4872
30°	4560	4622	4748
35°	4336	4386	4563
40°	4008	4052	4195
45°	3601	3666	3723
50°	3113	3224	3082
55°	2717	2646	2610
60°	2352	2118	2261
65°	2103	1663	2031
70°	1950	1377	2002
75°	1947	1456	2223
80°	2156	1833	2507
85°	2251	1985	2834



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	4.3
10°-20°	501.9	12.3
20°-30°	742.2	18.3
30°-40°	837.6	20.6
40°-50°	738.4	18.2
50°-60°	506.5	12.5
60°-70°	298.9	7.4
70°-80°	186.5	4.6
80°-90°	77.8	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°	1420.3	34.9
0°-40°	2257.9	55.5
0°-60°	3502.8	86.1
0°-90°	4066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1856	1852	1853	1859	1864	176
15°	1766	1768	1775	1797	1806	498
25°	1593	1599	1611	1632	1641	732
35°	1320	1331	1335	1367	1389	822
45°	946	951	963	969	978	727
55°	579	565	564	545	556	519
65°	330	290	261	302	319	333
75°	187	168	140	196	214	201
85°	73	68	64	84	92	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.1	1862.1	1862.1	1862.1	1862.1
2.5°	1863.0	1858.3	1856.4	1864.0	1868.7
5°	1855.5	1851.7	1852.6	1859.2	1864.0
7.5°	1842.2	1839.4	1839.4	1848.8	1853.6
10°	1823.3	1822.3	1822.3	1833.7	1840.3
12.5°	1796.8	1797.7	1801.5	1816.7	1828.0
15°	1765.6	1767.5	1775.0	1796.8	1806.3
17.5°	1731.5	1731.5	1746.6	1763.7	1775.0
20°	1688.0	1690.8	1707.9	1726.8	1738.1
22.5°	1643.5	1648.2	1662.4	1684.2	1694.6
25°	1593.4	1599.0	1611.3	1632.2	1640.7
27.5°	1534.7	1542.3	1555.5	1570.7	1588.6
30°	1467.5	1478.9	1487.4	1508.2	1528.1
32.5°	1399.4	1409.8	1419.3	1441.0	1463.7
35°	1319.9	1331.3	1335.1	1367.2	1389.0
37.5°	1238.5	1243.3	1245.2	1277.3	1301.0
40°	1141.1	1150.6	1153.4	1178.9	1194.1
42.5°	1047.4	1051.2	1056.9	1075.8	1093.8
45°	946.2	950.9	963.2	968.9	978.3
47.5°	840.2	854.4	868.6	850.6	851.6
50°	743.7	755.1	770.2	736.1	736.1
52.5°	657.6	663.3	664.2	635.8	641.5
55°	579.1	564.9	563.9	545.0	556.4
57.5°	500.5	481.6	475.0	469.3	482.6
60°	437.1	403.1	393.6	402.1	420.1
62.5°	385.1	341.6	323.6	345.4	361.4
65°	330.2	290.5	261.1	301.8	318.9
67.5°	287.6	249.8	211.9	269.7	282.0
70°	247.9	218.6	175.0	245.1	254.5
72.5°	215.7	193.0	151.4	221.4	232.8
75°	187.3	168.4	140.0	195.9	213.8
77.5°	164.6	143.8	130.6	169.4	191.1
80°	139.1	118.3	118.3	141.9	161.8
82.5°	109.8	92.7	95.6	115.4	129.6
85°	72.9	68.1	64.3	84.2	91.8
87.5°	36.9	37.8	34.1	43.5	44.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)