

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: P292255

Luminaire Tested: **22GR-LD5-43-A-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292255
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-LD5-43-A-UNV-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3985.0 lumens
Efficiency: N/A
Efficacy: 110.4 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

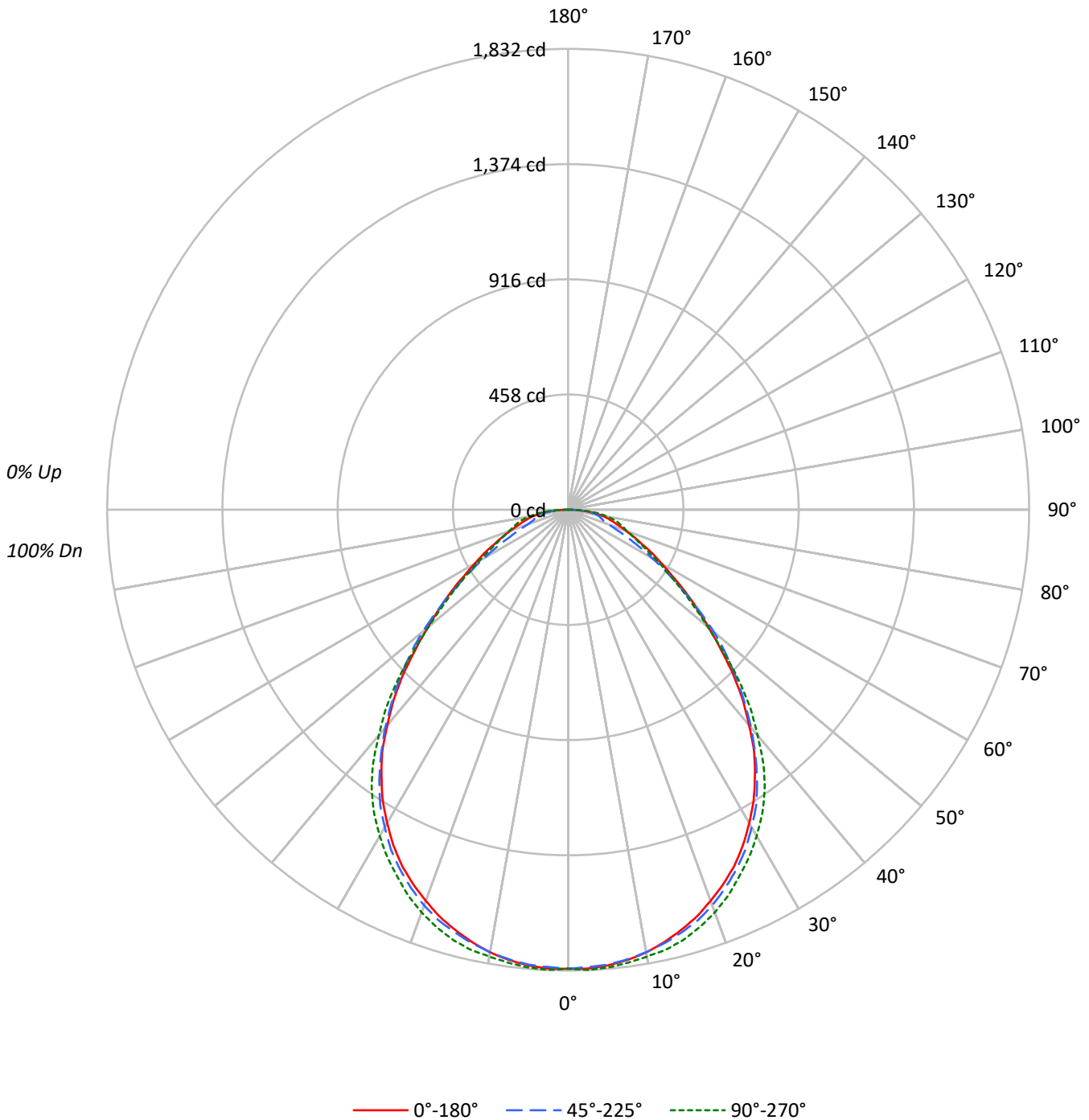
Input Watts (W): 36.084
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4911	4911	4911
5°	4912	4905	4935
10°	4883	4880	4929
15°	4821	4847	4932
20°	4738	4793	4878
25°	4637	4689	4774
30°	4469	4530	4653
35°	4250	4299	4472
40°	3929	3971	4111
45°	3529	3593	3649
50°	3051	3160	3021
55°	2662	2593	2558
60°	2306	2076	2216
65°	2060	1629	1990
70°	1912	1350	1963
75°	1909	1426	2179
80°	2112	1796	2458
85°	2205	1948	2779



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.7	4.3
10°-20°	491.9	12.3
20°-30°	727.5	18.3
30°-40°	820.9	20.6
40°-50°	723.7	18.2
50°-60°	496.4	12.5
60°-70°	292.9	7.4
70°-80°	182.8	4.6
80°-90°	76.2	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°	1392.0	34.9
0°-40°	2212.9	55.5
0°-60°	3433.1	86.1
0°-90°	3985.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3985.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1825	1825	1825	1825	1825	
5°	1818	1815	1816	1822	1827	173
15°	1730	1732	1740	1761	1770	488
25°	1562	1567	1579	1600	1608	717
35°	1294	1305	1308	1340	1361	806
45°	927	932	944	950	959	712
55°	568	554	553	534	545	509
65°	324	285	256	296	312	326
75°	184	165	137	192	210	197
85°	71	67	63	82	90	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1825.0	1825.0	1825.0	1825.0	1825.0
2.5°	1825.9	1821.3	1819.4	1826.8	1831.5
5°	1818.5	1814.8	1815.7	1822.2	1826.8
7.5°	1805.5	1802.7	1802.7	1812.0	1816.6
10°	1787.0	1786.0	1786.0	1797.2	1803.7
12.5°	1761.0	1761.9	1765.6	1780.5	1791.6
15°	1730.4	1732.3	1739.7	1761.0	1770.3
17.5°	1697.0	1697.0	1711.9	1728.5	1739.7
20°	1654.4	1657.1	1673.8	1692.4	1703.5
22.5°	1610.8	1615.4	1629.3	1650.6	1660.8
25°	1561.6	1567.2	1579.2	1599.6	1608.0
27.5°	1504.1	1511.5	1524.5	1539.4	1557.0
30°	1438.3	1449.4	1457.8	1478.2	1497.6
32.5°	1371.5	1381.7	1391.0	1412.3	1434.6
35°	1293.6	1304.8	1308.5	1340.0	1361.3
37.5°	1213.9	1218.5	1220.4	1251.9	1275.1
40°	1118.4	1127.6	1130.4	1155.5	1170.3
42.5°	1026.6	1030.3	1035.8	1054.4	1072.0
45°	927.3	932.0	944.0	949.6	958.9
47.5°	823.5	837.4	851.3	833.7	834.6
50°	728.9	740.0	754.8	721.5	721.5
52.5°	644.5	650.1	651.0	623.2	628.7
55°	567.5	553.6	552.7	534.1	545.3
57.5°	490.6	472.0	465.5	460.0	472.9
60°	428.4	395.0	385.8	394.1	411.7
62.5°	377.4	334.8	317.1	338.5	354.2
65°	323.6	284.7	255.9	295.8	312.5
67.5°	281.9	244.8	207.7	264.3	276.3
70°	243.0	214.2	171.6	240.2	249.5
72.5°	211.4	189.2	148.4	217.0	228.1
75°	183.6	165.1	137.2	192.0	209.6
77.5°	161.4	141.0	128.0	166.0	187.3
80°	136.3	115.9	115.9	139.1	158.6
82.5°	107.6	90.9	93.7	113.1	127.0
85°	71.4	66.8	63.1	82.5	90.0
87.5°	36.2	37.1	33.4	42.7	43.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)