

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: P292221

Luminaire Tested: **22GR-LD5-43-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292221
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-L82765-W2A1-U-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4526.0 lumens
Efficiency: N/A
Efficacy: 125.1 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

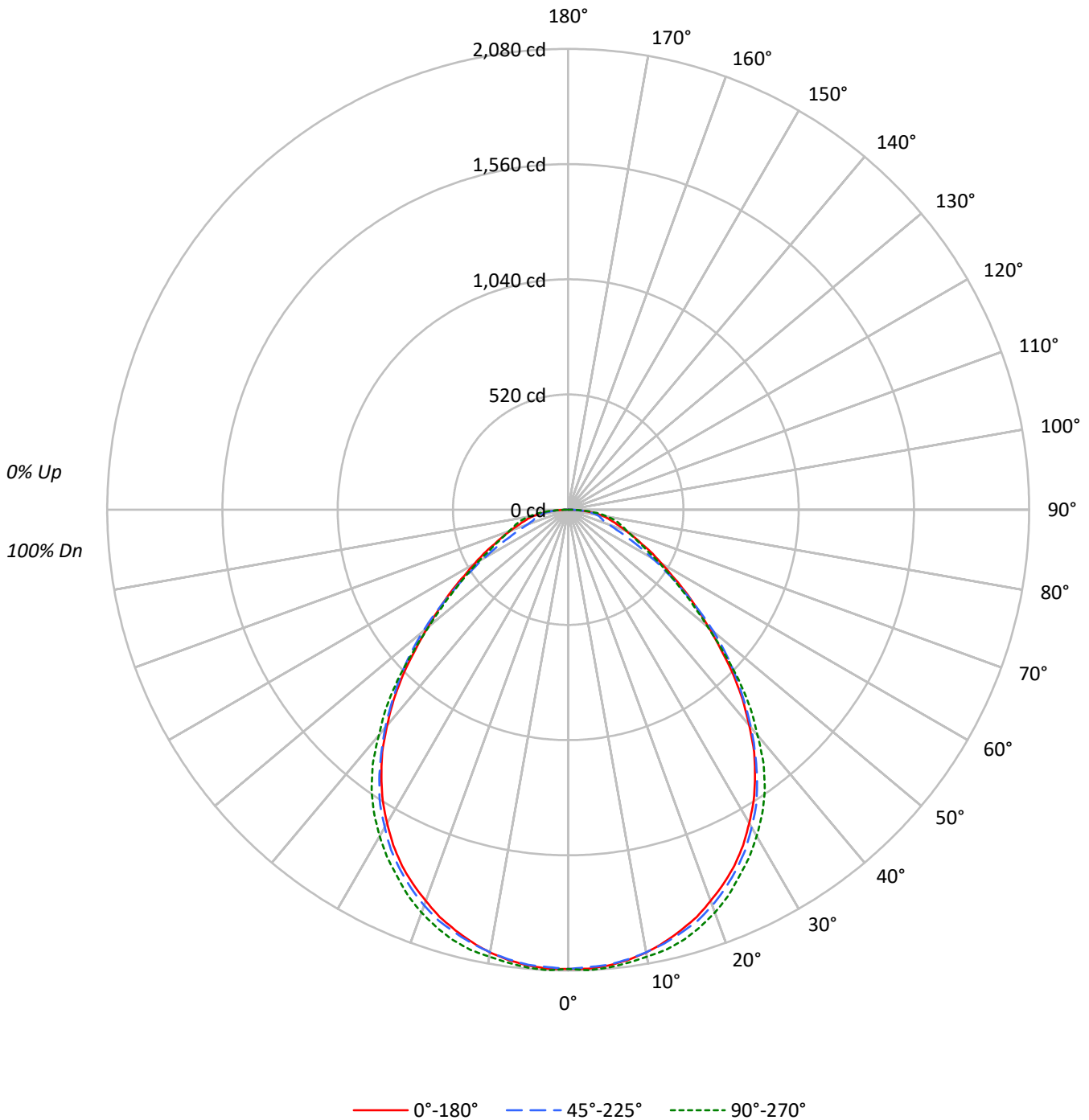
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5578	5578	5578
5°	5579	5571	5605
10°	5546	5543	5598
15°	5475	5504	5601
20°	5381	5444	5541
25°	5266	5325	5423
30°	5076	5145	5285
35°	4826	4882	5079
40°	4462	4510	4669
45°	4008	4080	4144
50°	3466	3589	3430
55°	3024	2945	2905
60°	2619	2358	2517
65°	2341	1851	2260
70°	2171	1533	2229
75°	2168	1621	2475
80°	2399	2041	2791
85°	2504	2211	3155



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	4.3
10°-20°	558.6	12.3
20°-30°	826.2	18.3
30°-40°	932.4	20.6
40°-50°	821.9	18.2
50°-60°	563.8	12.5
60°-70°	332.7	7.4
70°-80°	207.6	4.6
80°-90°	86.6	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°	1581.0	34.9
0°-40°	2513.4	55.5
0°-60°	3899.1	86.1
0°-90°	4526.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2073	2073	2073	2073	2073	
5°	2065	2061	2062	2070	2075	196
15°	1965	1967	1976	2000	2011	554
25°	1774	1780	1794	1817	1826	815
35°	1469	1482	1486	1522	1546	915
45°	1053	1058	1072	1078	1089	809
55°	645	629	628	607	619	578
65°	368	323	291	336	355	370
75°	208	188	156	218	238	224
85°	81	76	72	94	102	88
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.7	2072.7	2072.7	2072.7	2072.7
2.5°	2073.8	2068.5	2066.4	2074.9	2080.1
5°	2065.4	2061.2	2062.2	2069.6	2074.9
7.5°	2050.6	2047.5	2047.5	2058.0	2063.3
10°	2029.6	2028.5	2028.5	2041.1	2048.5
12.5°	2000.1	2001.1	2005.3	2022.2	2034.8
15°	1965.3	1967.4	1975.8	2000.1	2010.6
17.5°	1927.4	1927.4	1944.3	1963.2	1975.8
20°	1879.0	1882.1	1901.1	1922.1	1934.8
22.5°	1829.4	1834.7	1850.5	1874.7	1886.3
25°	1773.6	1779.9	1793.6	1816.8	1826.3
27.5°	1708.3	1716.8	1731.5	1748.4	1768.4
30°	1633.5	1646.2	1655.7	1678.8	1701.0
32.5°	1557.7	1569.3	1579.8	1604.1	1629.3
35°	1469.2	1481.9	1486.1	1521.9	1546.1
37.5°	1378.7	1383.9	1386.0	1421.9	1448.2
40°	1270.2	1280.7	1283.9	1312.3	1329.2
42.5°	1165.9	1170.1	1176.5	1197.5	1217.5
45°	1053.2	1058.5	1072.2	1078.5	1089.0
47.5°	935.3	951.1	966.9	946.8	947.9
50°	827.8	840.5	857.3	819.4	819.4
52.5°	732.0	738.3	739.4	707.8	714.1
55°	644.6	628.8	627.7	606.7	619.3
57.5°	557.2	536.1	528.7	522.4	537.1
60°	486.6	448.7	438.1	447.6	467.6
62.5°	428.7	380.2	360.2	384.4	402.3
65°	367.6	323.3	290.7	336.0	354.9
67.5°	320.2	278.1	235.9	300.2	313.9
70°	275.9	243.3	194.8	272.8	283.3
72.5°	240.1	214.9	168.5	246.5	259.1
75°	208.5	187.5	155.9	218.0	238.0
77.5°	183.3	160.1	145.3	188.5	212.8
80°	154.8	131.7	131.7	158.0	180.1
82.5°	122.2	103.2	106.4	128.5	144.3
85°	81.1	75.8	71.6	93.7	102.2
87.5°	41.1	42.1	37.9	48.4	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)