

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: P292210

Luminaire Tested: **22GR-LD5-40-A-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292210
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-L82765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4186.0 lumens
Efficiency: N/A
Efficacy: 126.4 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

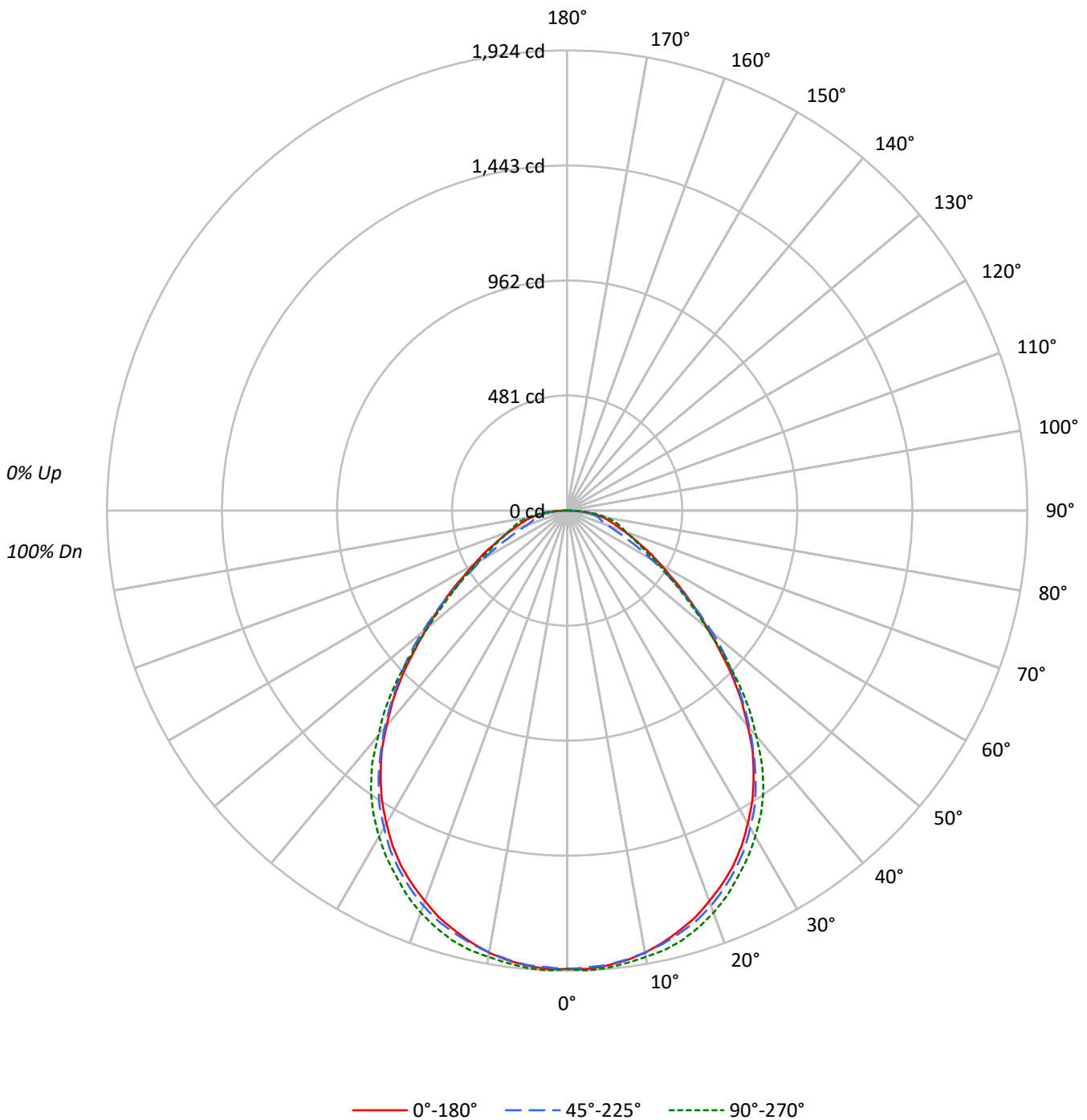
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5159	5159	5159
5°	5160	5152	5184
10°	5129	5126	5177
15°	5064	5091	5181
20°	4977	5035	5124
25°	4871	4926	5015
30°	4694	4758	4888
35°	4464	4515	4698
40°	4127	4171	4318
45°	3707	3774	3833
50°	3205	3319	3173
55°	2797	2724	2687
60°	2422	2181	2328
65°	2165	1712	2090
70°	2008	1418	2061
75°	2006	1499	2288
80°	2219	1888	2582
85°	2316	2044	2918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.4	4.3
10°-20°	516.7	12.3
20°-30°	764.2	18.3
30°-40°	862.3	20.6
40°-50°	760.2	18.2
50°-60°	521.5	12.5
60°-70°	307.7	7.4
70°-80°	192.0	4.6
80°-90°	80.1	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°	1462.2	34.9
0°-40°	2324.6	55.5
0°-60°	3606.2	86.1
0°-90°	4186.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4186.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1917	1917	1917	1917	1917	
5°	1910	1906	1907	1914	1919	181
15°	1818	1820	1827	1850	1860	512
25°	1640	1646	1659	1680	1689	753
35°	1359	1371	1374	1408	1430	847
45°	974	979	992	998	1007	748
55°	596	582	581	561	573	535
65°	340	299	269	311	328	342
75°	193	173	144	202	220	207
85°	75	70	66	87	94	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1917.0	1917.0	1917.0	1917.0	1917.0
2.5°	1918.0	1913.1	1911.2	1919.0	1923.9
5°	1910.2	1906.3	1907.3	1914.1	1919.0
7.5°	1896.6	1893.7	1893.7	1903.4	1908.3
10°	1877.1	1876.1	1876.1	1887.8	1894.6
12.5°	1849.8	1850.8	1854.7	1870.3	1882.0
15°	1817.7	1819.6	1827.4	1849.8	1859.6
17.5°	1782.6	1782.6	1798.2	1815.7	1827.4
20°	1737.8	1740.7	1758.3	1777.7	1789.4
22.5°	1692.0	1696.9	1711.5	1733.9	1744.6
25°	1640.4	1646.2	1658.9	1680.3	1689.1
27.5°	1580.0	1587.8	1601.4	1617.0	1635.5
30°	1510.8	1522.5	1531.3	1552.7	1573.2
32.5°	1440.7	1451.4	1461.2	1483.6	1506.9
35°	1358.9	1370.6	1374.5	1407.6	1430.0
37.5°	1275.1	1280.0	1281.9	1315.0	1339.4
40°	1174.8	1184.5	1187.4	1213.7	1229.3
42.5°	1078.3	1082.2	1088.1	1107.6	1126.1
45°	974.1	979.0	991.6	997.5	1007.2
47.5°	865.0	879.6	894.2	875.7	876.7
50°	765.6	777.3	792.9	757.9	757.9
52.5°	677.0	682.8	683.8	654.6	660.4
55°	596.2	581.5	580.6	561.1	572.8
57.5°	515.3	495.8	489.0	483.2	496.8
60°	450.0	415.0	405.2	414.0	432.5
62.5°	396.5	351.7	333.1	355.5	372.1
65°	340.0	299.0	268.9	310.7	328.3
67.5°	296.1	257.2	218.2	277.6	290.3
70°	255.2	225.0	180.2	252.3	262.0
72.5°	222.1	198.7	155.9	227.9	239.6
75°	192.9	173.4	144.2	201.6	220.1
77.5°	169.5	148.1	134.4	174.4	196.8
80°	143.2	121.8	121.8	146.1	166.6
82.5°	113.0	95.5	98.4	118.8	133.5
85°	75.0	70.1	66.2	86.7	94.5
87.5°	38.0	39.0	35.1	44.8	45.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)