

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: P292700

Luminaire Tested: **22GR-LD5-40-A19/156-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292700
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33284)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A19/156-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3712.0 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.21
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

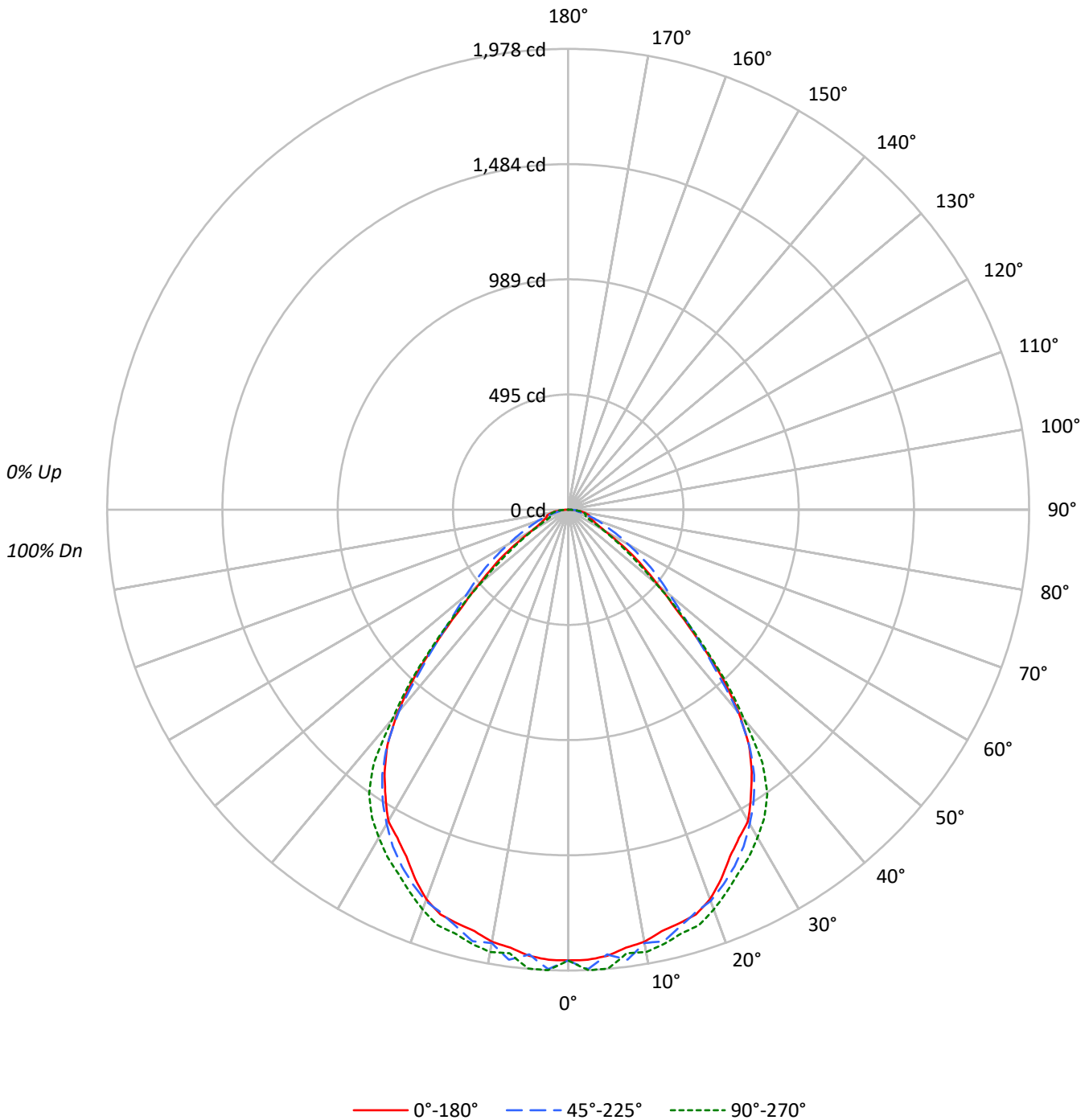
Input Watts (W): 33.108
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	91	90	88					88			
2	103	96	90	85	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	79	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	75	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	59	56	54					54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48					48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41	51	45	41	40					40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	39	35	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5206	5206	5206
5°	5193	5176	5339
10°	5145	5159	5267
15°	5122	5161	5243
20°	5094	5119	5229
25°	4877	5014	5118
30°	4796	4840	5047
35°	4511	4568	4893
40°	3997	3969	4126
45°	2986	2992	3075
50°	2102	2391	2036
55°	1551	2019	1391
60°	970	1596	908
65°	791	1264	635
70°	784	1053	626
75°	973	773	809
80°	1085	611	989
85°	1081	1133	1108



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	5.0
10°-20°	524.6	14.1
20°-30°	776.9	20.9
30°-40°	870.2	23.4
40°-50°	639.5	17.2
50°-60°	357.4	9.6
60°-70°	199.2	5.4
70°-80°	117.0	3.2
80°-90°	43.0	1.2
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°	1485.6	40.0
0°-40°	2355.9	63.5
0°-60°	3352.7	90.3
0°-90°	3712.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1935	1935	1935	1935	1935	
5°	1922	1958	1916	1956	1977	182
15°	1838	1850	1852	1880	1882	519
25°	1642	1656	1689	1712	1724	761
35°	1373	1374	1391	1454	1489	851
45°	784	848	786	842	808	613
55°	331	402	430	429	296	295
65°	124	220	198	254	100	128
75°	94	132	74	150	78	94
85°	35	52	37	47	36	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1934.6	1934.6	1934.6	1934.6	1934.6
2.5°	1933.7	1951.2	1973.9	1976.6	1978.3
5°	1922.3	1958.2	1916.2	1955.6	1976.6
7.5°	1896.1	1918.0	1948.6	1909.2	1920.6
10°	1883.0	1888.2	1888.2	1937.2	1927.6
12.5°	1853.3	1888.2	1897.0	1887.4	1908.4
15°	1838.4	1849.8	1852.4	1880.4	1882.1
17.5°	1821.8	1819.1	1813.0	1833.1	1869.0
20°	1778.9	1769.3	1787.7	1812.1	1826.1
22.5°	1715.9	1718.6	1740.4	1760.5	1776.3
25°	1642.5	1655.6	1688.8	1712.4	1723.8
27.5°	1587.4	1606.6	1629.4	1657.3	1680.1
30°	1543.6	1541.9	1557.6	1597.9	1624.1
32.5°	1458.8	1464.9	1481.6	1529.7	1566.4
35°	1373.1	1374.0	1390.6	1453.6	1489.4
37.5°	1274.3	1267.3	1276.9	1345.1	1368.7
40°	1137.8	1139.6	1130.0	1178.1	1174.6
42.5°	978.7	992.7	942.8	1005.8	1001.4
45°	784.5	848.4	786.3	842.2	808.1
47.5°	619.2	713.7	662.1	703.2	639.3
50°	502.0	599.1	571.1	589.5	486.3
52.5°	411.9	490.6	499.4	503.8	379.6
55°	330.6	402.3	430.3	429.4	296.5
57.5°	244.0	327.1	359.5	372.6	224.8
60°	180.2	272.0	296.5	325.3	168.8
62.5°	145.2	238.8	244.9	285.1	128.6
65°	124.2	220.4	198.5	254.5	99.7
67.5°	110.2	205.5	161.8	227.4	84.8
70°	99.7	182.8	133.8	203.8	79.6
72.5°	97.1	155.7	103.2	181.9	78.7
75°	93.6	132.1	74.3	149.6	77.8
77.5°	80.5	112.8	53.3	115.4	72.6
80°	70.0	90.1	39.4	86.6	63.8
82.5°	54.2	68.2	35.0	65.6	51.6
85°	35.0	51.6	36.7	47.2	35.9
87.5°	16.6	28.9	26.2	25.4	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)