

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: P292597

Luminaire Tested: **22GR-LD5-40-A19/156-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292597
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3685.0 lumens
Efficiency: N/A
Efficacy: 113.9 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

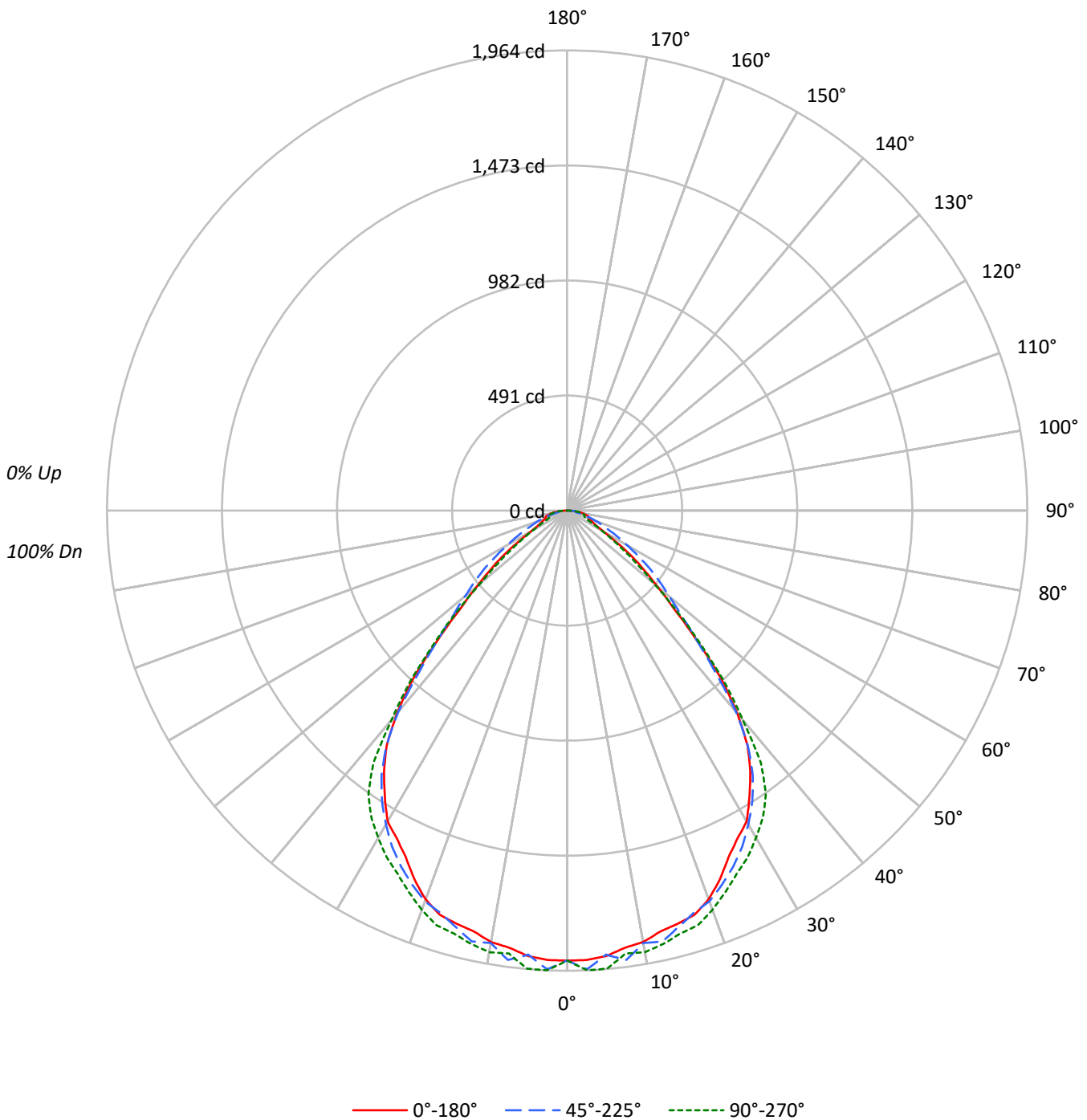
Input Watts (W): 32.364
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5168	5168	5168
5°	5155	5139	5300
10°	5108	5122	5229
15°	5084	5123	5205
20°	5057	5082	5192
25°	4841	4978	5081
30°	4762	4805	5010
35°	4478	4535	4857
40°	3968	3941	4096
45°	2964	2970	3053
50°	2087	2374	2021
55°	1540	2004	1381
60°	963	1584	902
65°	785	1255	630
70°	779	1045	622
75°	966	767	804
80°	1077	606	982
85°	1071	1127	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	5.0
10°-20°	520.7	14.1
20°-30°	771.3	20.9
30°-40°	863.9	23.4
40°-50°	634.8	17.2
50°-60°	354.8	9.6
60°-70°	197.8	5.4
70°-80°	116.2	3.2
80°-90°	42.7	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°	1474.8	40.0
0°-40°	2338.7	63.5
0°-60°	3328.4	90.3
0°-90°	3685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3685.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1908	1944	1902	1941	1962	181
15°	1825	1836	1839	1867	1868	515
25°	1630	1644	1676	1700	1711	756
35°	1363	1364	1380	1443	1479	844
45°	779	842	780	836	802	608
55°	328	399	427	426	294	293
65°	123	219	197	253	99	128
75°	93	131	74	148	77	93
85°	35	51	36	47	36	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1920.5	1920.5	1920.5	1920.5	1920.5
2.5°	1919.7	1937.0	1959.6	1962.2	1963.9
5°	1908.4	1944.0	1902.3	1941.4	1962.2
7.5°	1882.3	1904.0	1934.4	1895.3	1906.6
10°	1869.3	1874.5	1874.5	1923.1	1913.6
12.5°	1839.8	1874.5	1883.2	1873.6	1894.5
15°	1825.0	1836.3	1838.9	1866.7	1868.4
17.5°	1808.5	1805.9	1799.8	1819.8	1855.4
20°	1766.0	1756.4	1774.7	1799.0	1812.9
22.5°	1703.5	1706.1	1727.8	1747.7	1763.4
25°	1630.5	1643.6	1676.5	1700.0	1711.3
27.5°	1575.8	1594.9	1617.5	1645.3	1667.9
30°	1532.4	1530.7	1546.3	1586.3	1612.3
32.5°	1448.2	1454.3	1470.8	1518.5	1555.0
35°	1363.1	1364.0	1380.5	1443.0	1478.6
37.5°	1265.0	1258.1	1267.6	1335.3	1358.8
40°	1129.6	1131.3	1121.8	1169.5	1166.0
42.5°	971.5	985.4	935.9	998.5	994.1
45°	778.8	842.2	780.5	836.1	802.2
47.5°	614.7	708.5	657.2	698.1	634.7
50°	498.4	594.7	567.0	585.2	482.7
52.5°	408.9	487.1	495.8	500.1	376.8
55°	328.2	399.4	427.2	426.3	294.3
57.5°	242.2	324.7	356.8	369.9	223.1
60°	178.9	270.0	294.3	323.0	167.6
62.5°	144.1	237.0	243.1	283.0	127.6
65°	123.3	218.8	197.1	252.7	99.0
67.5°	109.4	204.0	160.6	225.7	84.2
70°	99.0	181.5	132.8	202.3	79.0
72.5°	96.4	154.5	102.5	180.6	78.1
75°	92.9	131.1	73.8	148.5	77.3
77.5°	79.9	112.0	53.0	114.6	72.1
80°	69.5	89.4	39.1	86.0	63.4
82.5°	53.8	67.7	34.7	65.1	51.2
85°	34.7	51.2	36.5	46.9	35.6
87.5°	16.5	28.7	26.0	25.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)