

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: P292703

Luminaire Tested: **22GR-LD5-40-A19/156-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292703
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-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3811.0 lumens
Efficiency: N/A
Efficacy: 112.6 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

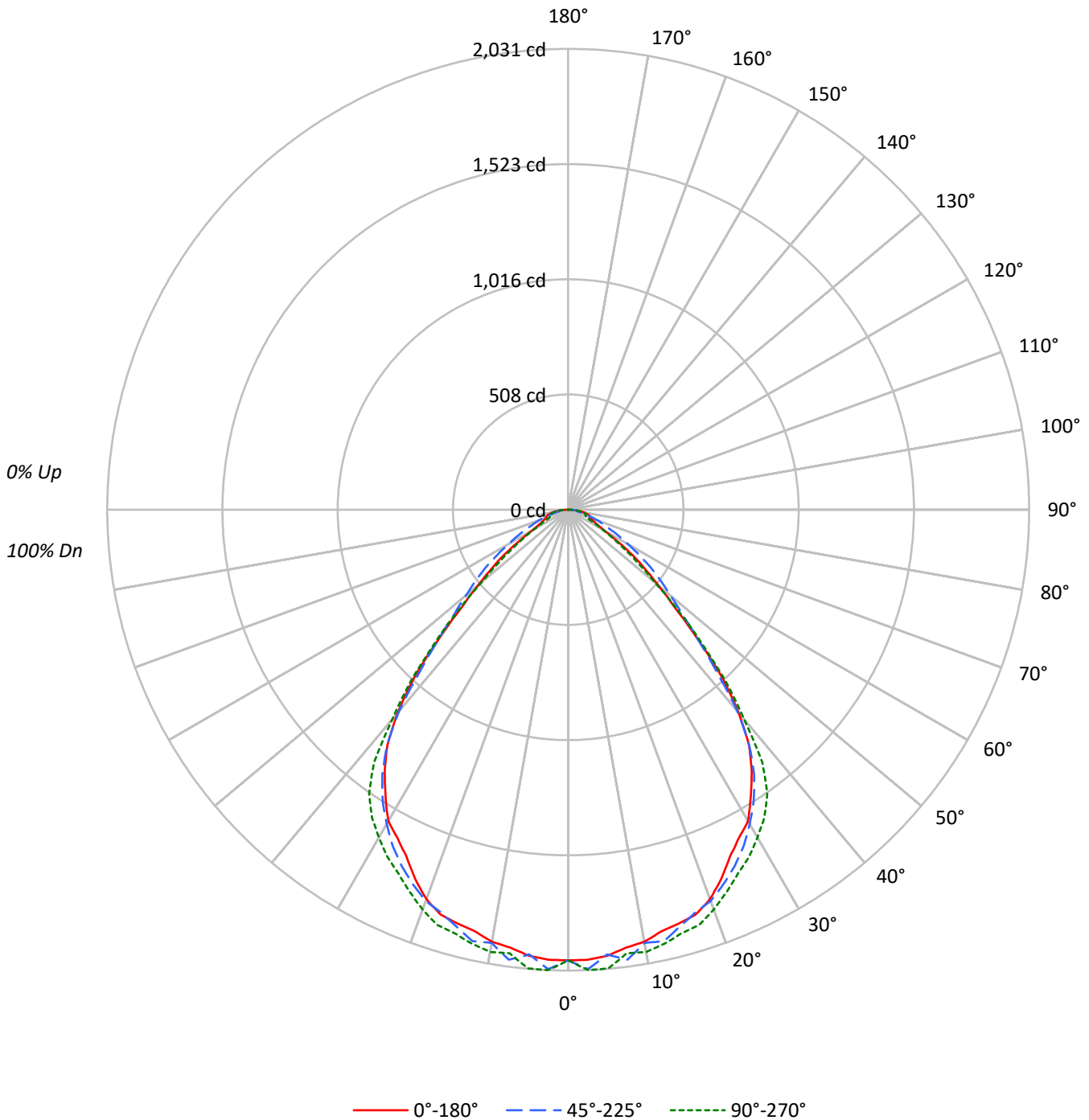
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5345	5345	5345
5°	5331	5314	5482
10°	5282	5297	5408
15°	5258	5298	5383
20°	5230	5256	5369
25°	5007	5148	5255
30°	4924	4969	5181
35°	4631	4690	5023
40°	4104	4075	4236
45°	3065	3072	3158
50°	2158	2454	2090
55°	1592	2073	1428
60°	996	1638	933
65°	812	1298	652
70°	806	1081	643
75°	999	793	831
80°	1113	626	1015
85°	1108	1164	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.1	5.0
10°-20°	538.5	14.1
20°-30°	797.6	20.9
30°-40°	893.5	23.4
40°-50°	656.5	17.2
50°-60°	366.9	9.6
60°-70°	204.5	5.4
70°-80°	120.2	3.2
80°-90°	44.2	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°	1525.2	40.0
0°-40°	2418.7	63.5
0°-60°	3442.2	90.3
0°-90°	3811.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3811.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1986	1986	1986	1986	1986	
5°	1974	2010	1967	2008	2029	187
15°	1887	1899	1902	1930	1932	533
25°	1686	1700	1734	1758	1770	782
35°	1410	1411	1428	1492	1529	873
45°	805	871	807	865	830	629
55°	339	413	442	441	304	303
65°	128	226	204	261	102	132
75°	96	136	76	154	80	97
85°	36	53	38	48	37	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1986.2	1986.2	1986.2	1986.2	1986.2
2.5°	1985.3	2003.2	2026.6	2029.3	2031.1
5°	1973.6	2010.4	1967.3	2007.7	2029.3
7.5°	1946.7	1969.1	2000.6	1960.1	1971.8
10°	1933.2	1938.6	1938.6	1988.9	1979.0
12.5°	1902.7	1938.6	1947.6	1937.7	1959.2
15°	1887.4	1899.1	1901.8	1930.5	1932.3
17.5°	1870.4	1867.7	1861.4	1882.0	1918.8
20°	1826.4	1816.5	1835.3	1860.5	1874.8
22.5°	1761.7	1764.4	1786.9	1807.5	1823.7
25°	1686.3	1699.8	1733.9	1758.1	1769.8
27.5°	1629.7	1649.5	1672.8	1701.5	1724.9
30°	1584.8	1583.0	1599.2	1640.5	1667.4
32.5°	1497.7	1504.0	1521.1	1570.5	1608.2
35°	1409.7	1410.6	1427.7	1492.3	1529.1
37.5°	1308.3	1301.1	1311.0	1381.0	1405.2
40°	1168.2	1170.0	1160.1	1209.5	1205.9
42.5°	1004.8	1019.1	968.0	1032.6	1028.1
45°	805.4	871.0	807.2	864.7	829.7
47.5°	635.7	732.7	679.7	721.9	656.4
50°	515.4	615.1	586.3	605.2	499.2
52.5°	422.9	503.7	512.7	517.2	389.7
55°	339.4	413.0	441.8	440.9	304.4
57.5°	250.5	335.8	369.0	382.5	230.8
60°	185.0	279.3	304.4	334.0	173.3
62.5°	149.1	245.1	251.4	292.7	132.0
65°	127.5	226.3	203.8	261.3	102.4
67.5°	113.1	211.0	166.1	233.5	87.1
70°	102.4	187.7	137.4	209.2	81.7
72.5°	99.7	159.8	106.0	186.8	80.8
75°	96.1	135.6	76.3	153.5	79.9
77.5°	82.6	115.8	54.8	118.5	74.5
80°	71.8	92.5	40.4	88.9	65.5
82.5°	55.7	70.0	35.9	67.3	53.0
85°	35.9	53.0	37.7	48.5	36.8
87.5°	17.1	29.6	26.9	26.0	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)