

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: P292710

Luminaire Tested: **22GR-LD5-43-A19/156-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292710
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-LD5-43-A19/156-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4024.0 lumens
Efficiency: N/A
Efficacy: 111.2 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

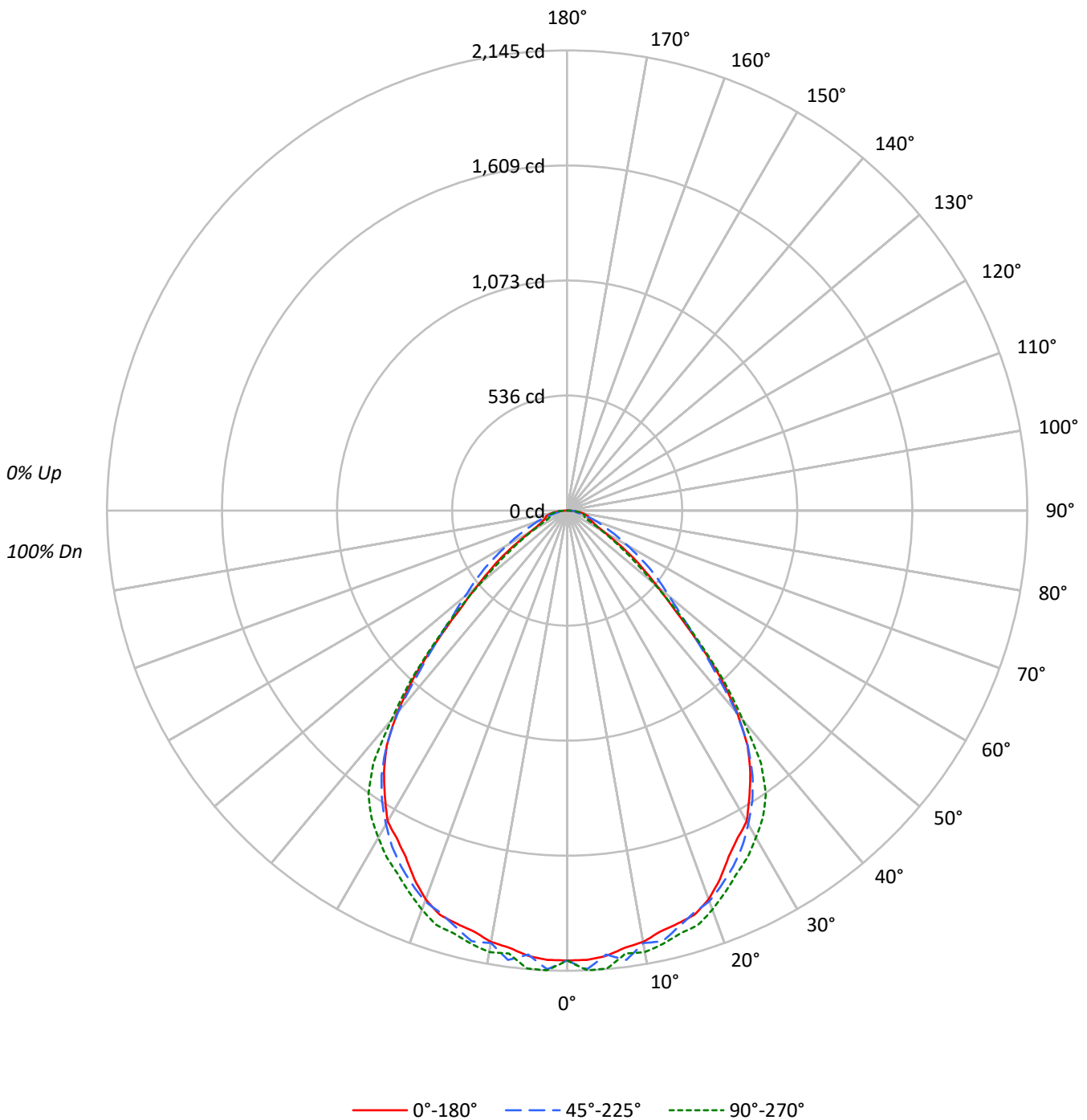
Input Watts (W): 36.177
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5644	5644	5644
5°	5629	5611	5788
10°	5578	5593	5710
15°	5552	5594	5684
20°	5522	5550	5669
25°	5287	5436	5548
30°	5200	5247	5471
35°	4890	4952	5304
40°	4333	4303	4473
45°	3236	3244	3334
50°	2278	2592	2207
55°	1681	2189	1508
60°	1051	1730	985
65°	857	1370	688
70°	851	1142	679
75°	1054	838	878
80°	1175	662	1072
85°	1170	1229	1201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	5.0
10°-20°	568.6	14.1
20°-30°	842.2	20.9
30°-40°	943.4	23.4
40°-50°	693.2	17.2
50°-60°	387.5	9.6
60°-70°	216.0	5.4
70°-80°	126.9	3.2
80°-90°	46.6	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°	1610.5	40.0
0°-40°	2553.9	63.5
0°-60°	3634.5	90.3
0°-90°	4024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4024.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2097	2097	2097	2097	2097	
5°	2084	2123	2077	2120	2143	197
15°	1993	2005	2008	2038	2040	563
25°	1780	1795	1831	1856	1869	825
35°	1488	1490	1508	1576	1615	922
45°	850	920	852	913	876	664
55°	358	436	466	466	321	320
65°	135	239	215	276	108	139
75°	101	143	81	162	84	102
85°	38	56	40	51	39	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2097.2	2097.2	2097.2	2097.2	2097.2
2.5°	2096.2	2115.2	2139.9	2142.7	2144.6
5°	2083.9	2122.8	2077.3	2120.0	2142.7
7.5°	2055.5	2079.2	2112.4	2069.7	2082.0
10°	2041.3	2046.9	2046.9	2100.0	2089.6
12.5°	2009.0	2046.9	2056.4	2046.0	2068.8
15°	1992.9	2005.2	2008.1	2038.4	2040.3
17.5°	1974.9	1972.0	1965.4	1987.2	2026.1
20°	1928.4	1918.0	1937.9	1964.5	1979.6
22.5°	1860.2	1863.0	1886.7	1908.5	1925.6
25°	1780.5	1794.8	1830.8	1856.4	1868.7
27.5°	1720.8	1741.7	1766.3	1796.6	1821.3
30°	1673.4	1671.5	1688.6	1732.2	1760.6
32.5°	1581.4	1588.1	1606.1	1658.2	1698.0
35°	1488.5	1489.5	1507.5	1575.7	1614.6
37.5°	1381.4	1373.8	1384.2	1458.2	1483.8
40°	1233.5	1235.4	1224.9	1277.1	1273.3
42.5°	1060.9	1076.1	1022.1	1090.3	1085.6
45°	850.4	919.7	852.3	913.0	876.0
47.5°	671.3	773.6	717.7	762.3	693.1
50°	544.2	649.4	619.1	639.0	527.1
52.5°	446.6	531.9	541.4	546.1	411.5
55°	358.4	436.1	466.5	465.5	321.4
57.5°	264.5	354.6	389.7	403.9	243.7
60°	195.3	294.9	321.4	352.7	183.0
62.5°	157.4	258.8	265.5	309.1	139.4
65°	134.6	238.9	215.2	275.9	108.1
67.5°	119.5	222.8	175.4	246.5	92.0
70°	108.1	198.2	145.1	220.9	86.3
72.5°	105.2	168.8	111.9	197.2	85.3
75°	101.4	143.2	80.6	162.1	84.4
77.5°	87.2	122.3	57.8	125.1	78.7
80°	75.8	97.7	42.7	93.9	69.2
82.5°	58.8	74.0	37.9	71.1	55.9
85°	37.9	55.9	39.8	51.2	38.9
87.5°	18.0	31.3	28.4	27.5	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)