

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: P292542

Luminaire Tested: **22GR-LD5-40-A19/156-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292542
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-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A19/156 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3795.0 lumens
Efficiency: N/A
Efficacy: 117.6 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

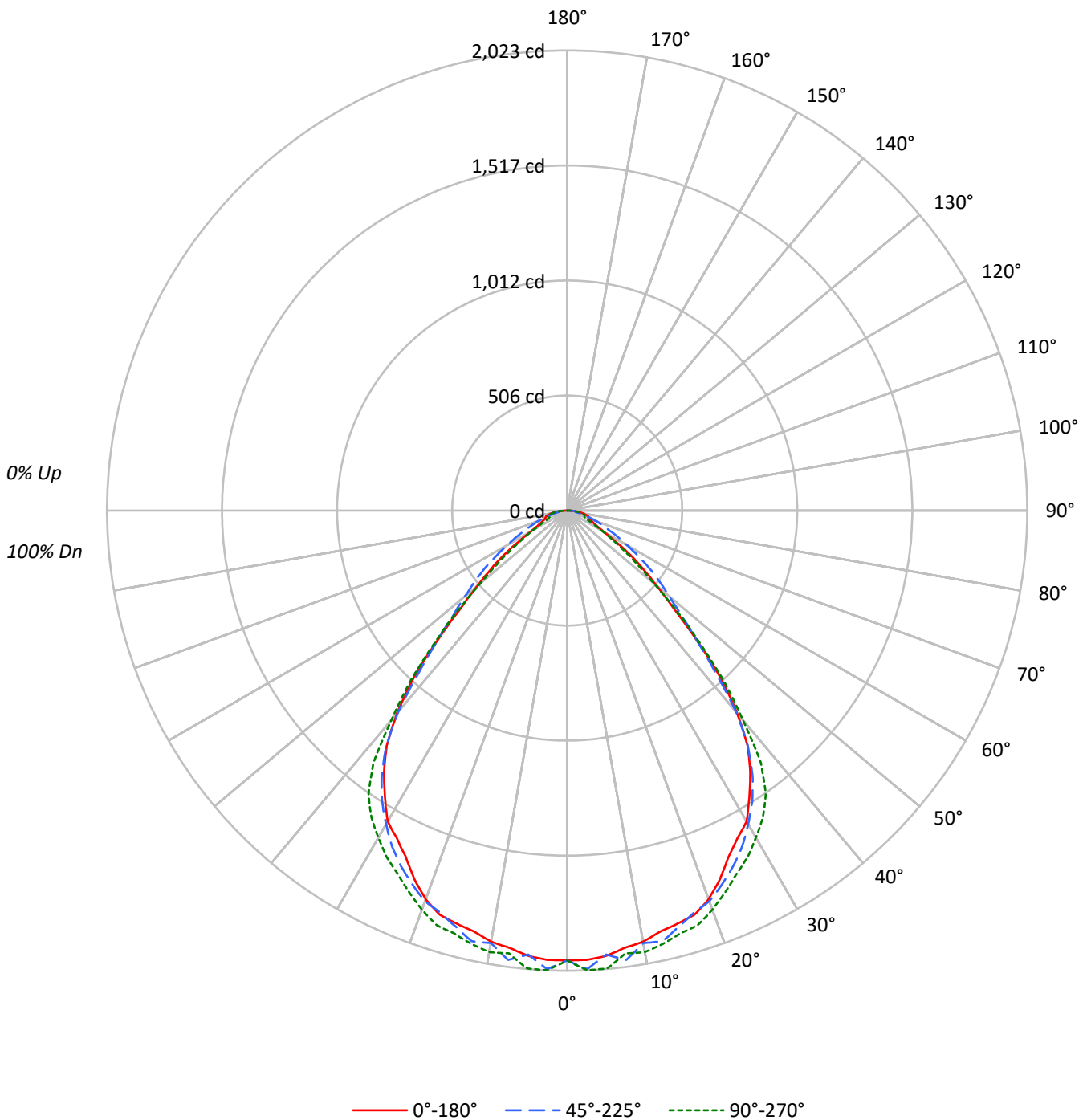
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5322	5322	5322
5°	5309	5292	5459
10°	5260	5275	5385
15°	5236	5276	5361
20°	5208	5234	5346
25°	4986	5127	5233
30°	4904	4948	5159
35°	4612	4670	5002
40°	4086	4058	4218
45°	3052	3059	3144
50°	2148	2444	2081
55°	1586	2064	1422
60°	991	1631	929
65°	809	1293	649
70°	802	1076	640
75°	995	790	828
80°	1108	623	1012
85°	1105	1161	1133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.3	5.0
10°-20°	536.3	14.1
20°-30°	794.3	20.9
30°-40°	889.7	23.4
40°-50°	653.7	17.2
50°-60°	365.4	9.6
60°-70°	203.7	5.4
70°-80°	119.7	3.2
80°-90°	44.0	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°	1518.8	40.0
0°-40°	2408.6	63.5
0°-60°	3427.7	90.3
0°-90°	3795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1978	1978	1978	1978	1978	
5°	1965	2002	1959	1999	2021	186
15°	1880	1891	1894	1922	1924	531
25°	1679	1693	1727	1751	1762	778
35°	1404	1405	1422	1486	1523	870
45°	802	867	804	861	826	627
55°	338	411	440	439	303	302
65°	127	225	203	260	102	131
75°	96	135	76	153	80	96
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°	1977.8	1977.8	1977.8	1977.8	1977.8
2.5°	1977.0	1994.8	2018.1	2020.8	2022.6
5°	1965.3	2002.0	1959.1	1999.3	2020.8
7.5°	1938.5	1960.9	1992.2	1951.9	1963.5
10°	1925.1	1930.5	1930.5	1980.5	1970.7
12.5°	1894.7	1930.5	1939.4	1929.6	1951.0
15°	1879.5	1891.1	1893.8	1922.4	1924.2
17.5°	1862.5	1859.8	1853.6	1874.1	1910.8
20°	1818.7	1808.9	1827.6	1852.7	1867.0
22.5°	1754.3	1757.0	1779.3	1799.9	1816.0
25°	1679.2	1692.6	1726.6	1750.7	1762.4
27.5°	1622.9	1642.5	1665.8	1694.4	1717.7
30°	1578.2	1576.4	1592.5	1633.6	1660.4
32.5°	1491.4	1497.7	1514.7	1563.9	1601.4
35°	1403.8	1404.7	1421.7	1486.1	1522.7
37.5°	1302.8	1295.6	1305.5	1375.2	1399.3
40°	1163.3	1165.1	1155.2	1204.4	1200.8
42.5°	1000.5	1014.9	963.9	1028.3	1023.8
45°	802.0	867.3	803.8	861.1	826.2
47.5°	633.1	729.6	676.9	718.9	653.6
50°	513.2	612.5	583.9	602.7	497.1
52.5°	421.1	501.6	510.6	515.0	388.1
55°	338.0	411.3	439.9	439.0	303.1
57.5°	249.5	334.4	367.5	380.9	229.8
60°	184.2	278.1	303.1	332.6	172.6
62.5°	148.4	244.1	250.4	291.5	131.4
65°	127.0	225.3	203.0	260.2	101.9
67.5°	112.7	210.1	165.4	232.5	86.7
70°	101.9	186.9	136.8	208.3	81.4
72.5°	99.3	159.2	105.5	186.0	80.5
75°	95.7	135.0	76.0	152.9	79.6
77.5°	82.3	115.3	54.5	118.0	74.2
80°	71.5	92.1	40.2	88.5	65.3
82.5°	55.4	69.7	35.8	67.1	52.8
85°	35.8	52.8	37.6	48.3	36.7
87.5°	17.0	29.5	26.8	25.9	18.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)