

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: P292150

Luminaire Tested: **22GR-LD5-40-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292150
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33296)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-40-A-UNV-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3842.0 lumens
Efficiency: N/A
Efficacy: 119.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

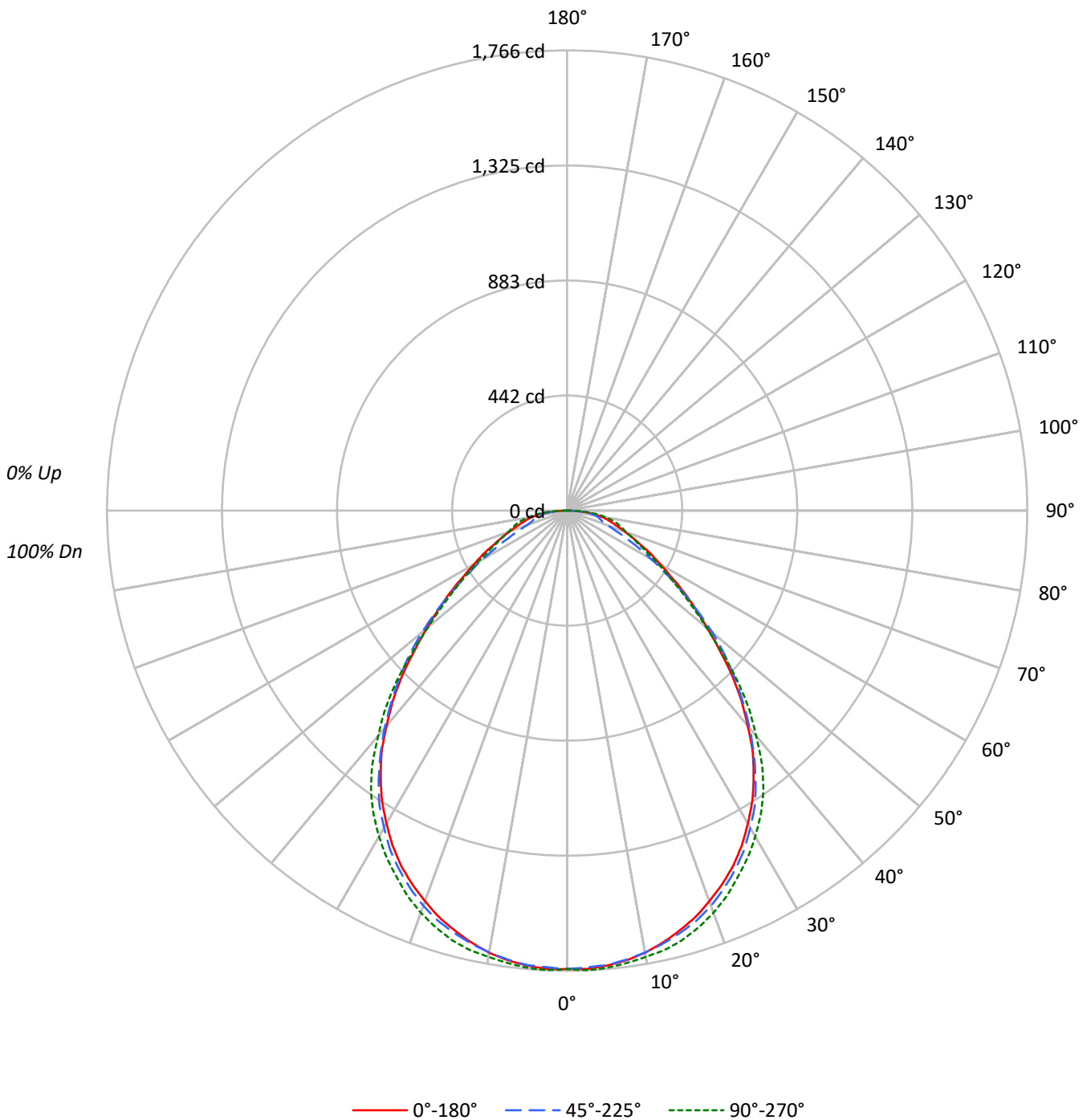
Input Watts (W): 32.271
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74					74			
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64					64			
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56					56			
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49					49			
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44					44			
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39					39			
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36					36			
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32					32			
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30					30			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4735	4735	4735
5°	4736	4729	4758
10°	4708	4705	4752
15°	4648	4673	4755
20°	4568	4621	4703
25°	4470	4521	4603
30°	4309	4367	4487
35°	4097	4144	4312
40°	3788	3829	3964
45°	3403	3463	3518
50°	2942	3047	2912
55°	2567	2500	2466
60°	2223	2002	2137
65°	1987	1571	1918
70°	1843	1301	1892
75°	1840	1376	2101
80°	2036	1733	2369
85°	2124	1877	2677



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	4.3
10°-20°	474.2	12.3
20°-30°	701.4	18.3
30°-40°	791.5	20.6
40°-50°	697.7	18.2
50°-60°	478.6	12.5
60°-70°	282.4	7.4
70°-80°	176.2	4.6
80°-90°	73.5	1.9
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°	1342.1	34.9
0°-40°	2133.5	55.5
0°-60°	3309.9	86.1
0°-90°	3842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1760	1760	1760	1760	1760	
5°	1753	1750	1751	1757	1761	166
15°	1668	1670	1677	1698	1707	470
25°	1506	1511	1523	1542	1550	691
35°	1247	1258	1262	1292	1312	777
45°	894	898	910	916	924	687
55°	547	534	533	515	526	491
65°	312	274	247	285	301	314
75°	177	159	132	185	202	190
85°	69	64	61	80	87	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1759.5	1759.5	1759.5	1759.5	1759.5
2.5°	1760.4	1755.9	1754.1	1761.3	1765.8
5°	1753.2	1749.7	1750.6	1756.8	1761.3
7.5°	1740.7	1738.0	1738.0	1747.0	1751.5
10°	1722.8	1721.9	1721.9	1732.7	1738.9
12.5°	1697.8	1698.7	1702.3	1716.6	1727.3
15°	1668.3	1670.1	1677.2	1697.8	1706.7
17.5°	1636.1	1636.1	1650.4	1666.5	1677.2
20°	1595.0	1597.7	1613.8	1631.6	1642.4
22.5°	1553.0	1557.4	1570.9	1591.4	1601.2
25°	1505.6	1511.0	1522.6	1542.2	1550.3
27.5°	1450.2	1457.3	1469.8	1484.1	1501.1
30°	1386.7	1397.4	1405.5	1425.1	1443.9
32.5°	1322.3	1332.1	1341.1	1361.6	1383.1
35°	1247.2	1257.9	1261.5	1291.9	1312.5
37.5°	1170.3	1174.8	1176.6	1207.0	1229.3
40°	1078.2	1087.2	1089.9	1114.0	1128.3
42.5°	989.7	993.3	998.7	1016.5	1033.5
45°	894.1	898.5	910.1	915.5	924.5
47.5°	793.9	807.3	820.7	803.8	804.6
50°	702.7	713.5	727.8	695.6	695.6
52.5°	621.4	626.7	627.6	600.8	606.2
55°	547.2	533.7	532.9	515.0	525.7
57.5°	473.0	455.1	448.8	443.5	456.0
60°	413.1	380.9	371.9	380.0	397.0
62.5°	363.9	322.8	305.8	326.3	341.5
65°	312.0	274.5	246.8	285.2	301.3
67.5°	271.8	236.0	200.3	254.8	266.4
70°	234.2	206.5	165.4	231.6	240.5
72.5°	203.8	182.4	143.0	209.2	219.9
75°	177.0	159.1	132.3	185.1	202.1
77.5°	155.6	135.9	123.4	160.0	180.6
80°	131.4	111.8	111.8	134.1	152.9
82.5°	103.7	87.6	90.3	109.1	122.5
85°	68.8	64.4	60.8	79.6	86.7
87.5°	34.9	35.8	32.2	41.1	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)