

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: P292206

Luminaire Tested: **22GR-LD5-40-A-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292206
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-L82765-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: 3838.0 lumens
Efficiency: N/A
Efficacy: 119.3 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

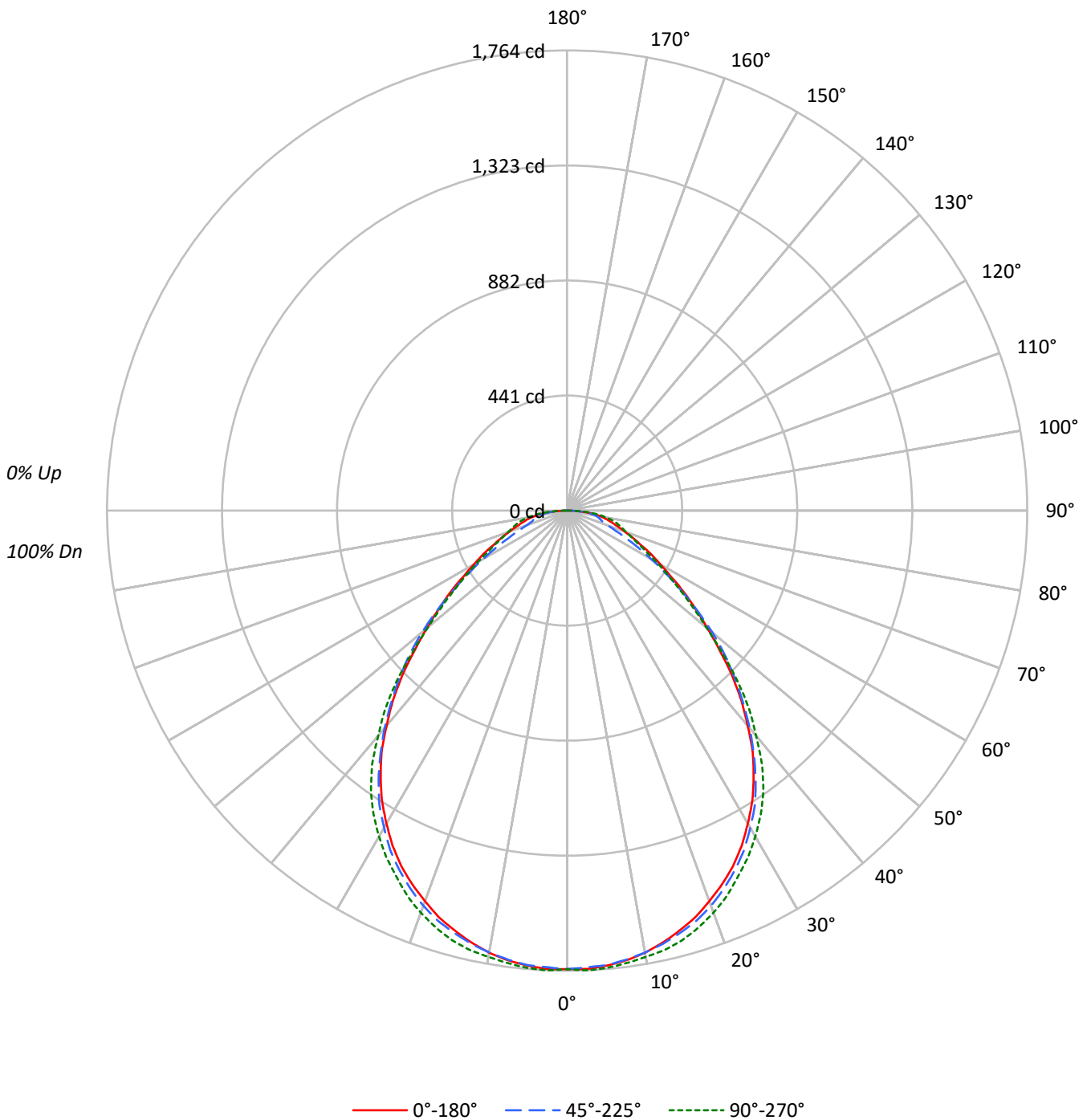
Input Watts (W): 32.178
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4730	4730	4730
5°	4731	4724	4753
10°	4703	4700	4747
15°	4643	4668	4750
20°	4563	4617	4698
25°	4466	4516	4598
30°	4304	4363	4482
35°	4093	4140	4307
40°	3784	3824	3959
45°	3399	3460	3514
50°	2939	3044	2909
55°	2564	2497	2464
60°	2221	1999	2134
65°	1985	1570	1917
70°	1841	1300	1890
75°	1838	1375	2098
80°	2035	1729	2366
85°	2124	1874	2674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	4.3
10°-20°	473.7	12.3
20°-30°	700.6	18.3
30°-40°	790.6	20.6
40°-50°	697.0	18.2
50°-60°	478.1	12.5
60°-70°	282.1	7.4
70°-80°	176.1	4.6
80°-90°	73.4	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°	1340.7	34.9
0°-40°	2131.3	55.5
0°-60°	3306.4	86.1
0°-90°	3838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3838.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1751	1748	1749	1755	1760	166
15°	1667	1668	1676	1696	1705	470
25°	1504	1509	1521	1541	1549	691
35°	1246	1257	1260	1291	1311	776
45°	893	898	909	915	924	686
55°	547	533	532	514	525	490
65°	312	274	246	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°	1757.7	1757.7	1757.7	1757.7	1757.7
2.5°	1758.6	1754.1	1752.3	1759.5	1763.9
5°	1751.4	1747.8	1748.7	1755.0	1759.5
7.5°	1738.9	1736.2	1736.2	1745.2	1749.6
10°	1721.0	1720.2	1720.2	1730.9	1737.1
12.5°	1696.0	1696.9	1700.5	1714.8	1725.5
15°	1666.6	1668.4	1675.5	1696.0	1705.0
17.5°	1634.4	1634.4	1648.7	1664.8	1675.5
20°	1593.3	1596.0	1612.1	1629.9	1640.7
22.5°	1551.4	1555.8	1569.2	1589.8	1599.6
25°	1504.0	1509.4	1521.0	1540.6	1548.7
27.5°	1448.6	1455.8	1468.3	1482.6	1499.6
30°	1385.2	1396.0	1404.0	1423.6	1442.4
32.5°	1320.9	1330.8	1339.7	1360.2	1381.7
35°	1245.9	1256.6	1260.2	1290.6	1311.1
37.5°	1169.1	1173.6	1175.3	1205.7	1228.0
40°	1077.1	1086.0	1088.7	1112.8	1127.1
42.5°	988.7	992.3	997.6	1015.5	1032.4
45°	893.1	897.6	909.2	914.6	923.5
47.5°	793.1	806.5	819.9	802.9	803.8
50°	702.0	712.7	727.0	694.8	694.8
52.5°	620.7	626.1	627.0	600.2	605.5
55°	546.6	533.2	532.3	514.4	525.2
57.5°	472.5	454.6	448.3	443.0	455.5
60°	412.6	380.5	371.5	379.6	396.5
62.5°	363.5	322.4	305.4	326.0	341.2
65°	311.7	274.2	246.5	284.9	301.0
67.5°	271.5	235.8	200.1	254.5	266.2
70°	234.0	206.3	165.2	231.3	240.2
72.5°	203.6	182.2	142.9	209.0	219.7
75°	176.8	159.0	132.2	184.9	201.8
77.5°	155.4	135.8	123.3	159.9	180.4
80°	131.3	111.6	111.6	134.0	152.7
82.5°	103.6	87.5	90.2	109.0	122.4
85°	68.8	64.3	60.7	79.5	86.6
87.5°	34.8	35.7	32.2	41.1	42.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)