

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: P292311

Luminaire Tested: **22GR-LD5-40-A-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292311
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-L92765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3859.0 lumens
Efficiency: N/A
Efficacy: 114.0 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

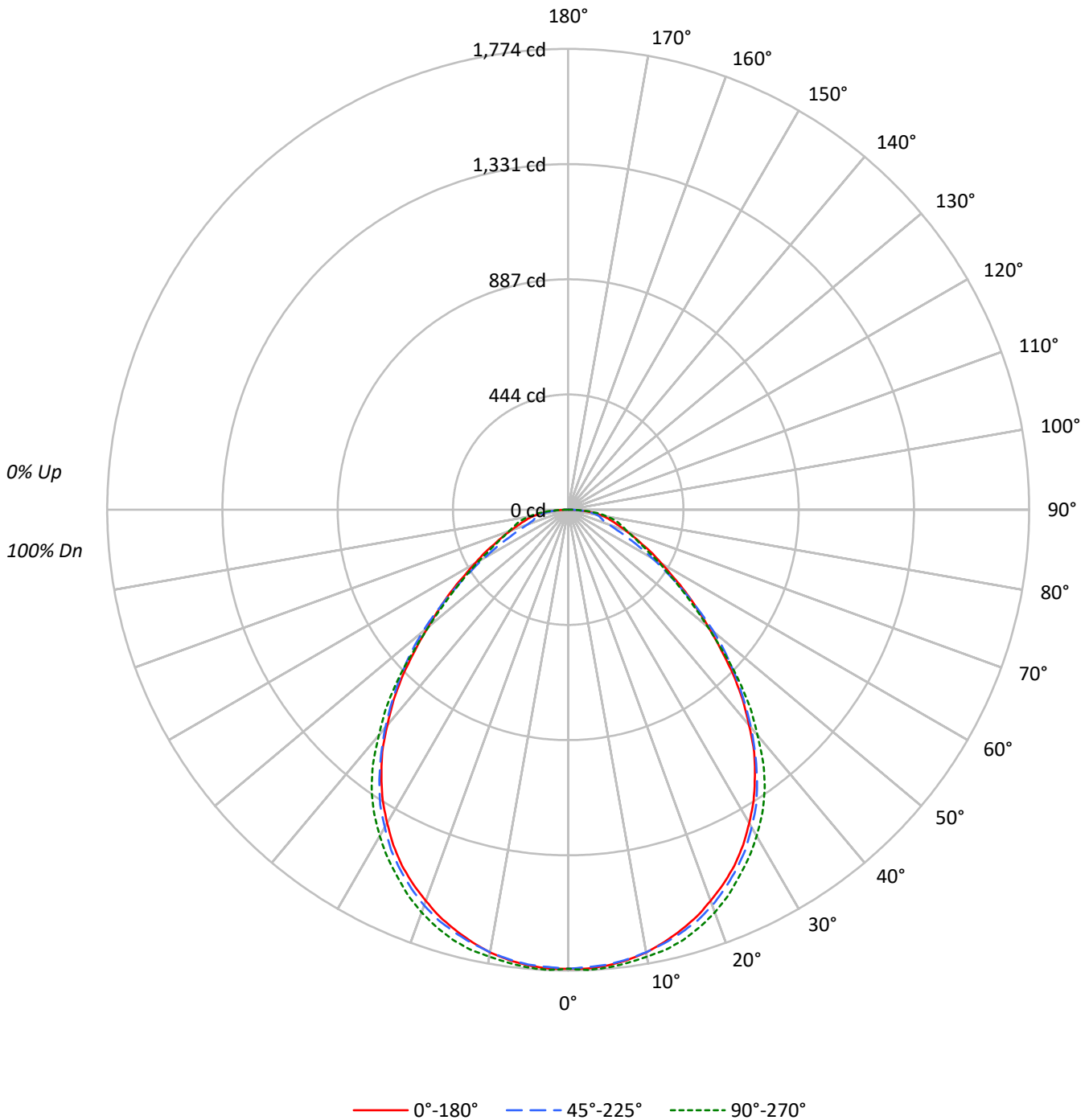
Input Watts (W): 33.852
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4756	4756	4756
5°	4757	4750	4779
10°	4729	4726	4773
15°	4668	4693	4776
20°	4588	4642	4724
25°	4490	4541	4623
30°	4328	4387	4506
35°	4115	4163	4331
40°	3804	3845	3981
45°	3417	3479	3534
50°	2955	3060	2925
55°	2578	2511	2477
60°	2233	2011	2146
65°	1996	1578	1927
70°	1851	1307	1901
75°	1849	1382	2111
80°	2046	1740	2380
85°	2133	1886	2689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	4.3
10°-20°	476.3	12.3
20°-30°	704.5	18.3
30°-40°	795.0	20.6
40°-50°	700.8	18.2
50°-60°	480.7	12.5
60°-70°	283.7	7.4
70°-80°	177.0	4.6
80°-90°	73.8	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°	1348.0	34.9
0°-40°	2143.0	55.5
0°-60°	3324.5	86.1
0°-90°	3859.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3859.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1761	1757	1758	1765	1769	167
15°	1676	1678	1685	1705	1714	472
25°	1512	1518	1529	1549	1557	694
35°	1253	1264	1267	1298	1318	781
45°	898	902	914	920	928	690
55°	550	536	535	517	528	493
65°	313	276	248	286	303	316
75°	178	160	133	186	203	191
85°	69	65	61	80	87	75
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1767.3	1767.3	1767.3	1767.3	1767.3
2.5°	1768.2	1763.7	1761.9	1769.1	1773.6
5°	1761.0	1757.4	1758.3	1764.6	1769.1
7.5°	1748.4	1745.7	1745.7	1754.7	1759.2
10°	1730.5	1729.6	1729.6	1740.3	1746.6
12.5°	1705.3	1706.2	1709.8	1724.2	1735.0
15°	1675.7	1677.5	1684.7	1705.3	1714.3
17.5°	1643.4	1643.4	1657.7	1673.9	1684.7
20°	1602.0	1604.7	1620.9	1638.9	1649.6
22.5°	1559.8	1564.3	1577.8	1598.5	1608.3
25°	1512.2	1517.6	1529.3	1549.1	1557.1
27.5°	1456.6	1463.8	1476.3	1490.7	1507.8
30°	1392.8	1403.6	1411.7	1431.4	1450.3
32.5°	1328.2	1338.0	1347.0	1367.7	1389.2
35°	1252.7	1263.5	1267.1	1297.6	1318.3
37.5°	1175.5	1180.0	1181.8	1212.3	1234.8
40°	1083.0	1092.0	1094.7	1118.9	1133.3
42.5°	994.1	997.7	1003.1	1021.0	1038.1
45°	898.0	902.5	914.2	919.6	928.5
47.5°	797.4	810.9	824.4	807.3	808.2
50°	705.8	716.6	731.0	698.7	698.7
52.5°	624.1	629.5	630.4	603.5	608.9
55°	549.6	536.1	535.2	517.3	528.0
57.5°	475.0	457.1	450.8	445.4	458.0
60°	414.9	382.6	373.6	381.7	398.7
62.5°	365.5	324.2	307.1	327.8	343.0
65°	313.4	275.7	247.9	286.5	302.6
67.5°	273.0	237.1	201.2	255.9	267.6
70°	235.3	207.4	166.1	232.6	241.6
72.5°	204.7	183.2	143.7	210.1	220.9
75°	177.8	159.8	132.9	185.9	203.0
77.5°	156.3	136.5	123.9	160.7	181.4
80°	132.0	112.3	112.3	134.7	153.6
82.5°	104.2	88.0	90.7	109.6	123.0
85°	69.1	64.7	61.1	79.9	87.1
87.5°	35.0	35.9	32.3	41.3	42.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)