

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: P292202

Luminaire Tested: **22GR-LD5-36-A-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292202
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-LD5-36-A-UNV-L82765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3751.0 lumens
Efficiency: N/A
Efficacy: 130.1 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

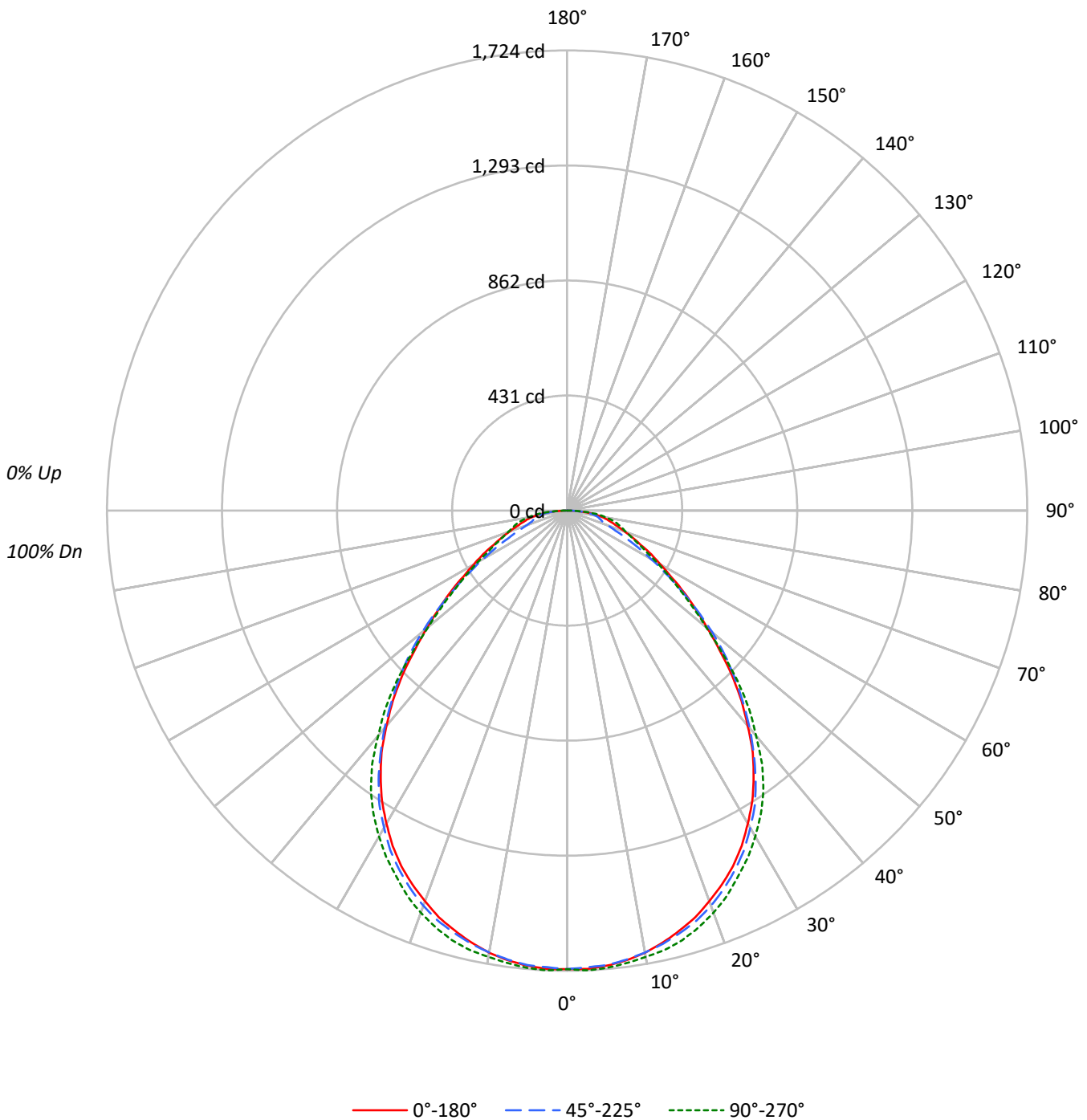
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4623	4623	4623
5°	4624	4617	4645
10°	4596	4594	4639
15°	4538	4562	4642
20°	4459	4512	4592
25°	4364	4414	4494
30°	4207	4264	4380
35°	4000	4046	4209
40°	3698	3738	3870
45°	3322	3382	3435
50°	2872	2974	2843
55°	2506	2441	2408
60°	2171	1954	2086
65°	1940	1534	1873
70°	1799	1271	1847
75°	1797	1343	2051
80°	1988	1691	2314
85°	2075	1834	2615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.6	4.3
10°-20°	463.0	12.3
20°-30°	684.7	18.3
30°-40°	772.7	20.6
40°-50°	681.2	18.2
50°-60°	467.3	12.5
60°-70°	275.7	7.4
70°-80°	172.1	4.6
80°-90°	71.7	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°	1310.3	34.9
0°-40°	2083.0	55.5
0°-60°	3231.5	86.1
0°-90°	3751.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3751.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1718	1718	1718	1718	1718	
5°	1712	1708	1709	1715	1720	162
15°	1629	1630	1638	1658	1666	459
25°	1470	1475	1486	1506	1514	675
35°	1218	1228	1232	1261	1281	759
45°	873	877	889	894	903	671
55°	534	521	520	503	513	479
65°	305	268	241	278	294	307
75°	173	155	129	181	197	185
85°	67	63	59	78	85	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1717.8	1717.8	1717.8	1717.8	1717.8
2.5°	1718.7	1714.3	1712.6	1719.6	1723.9
5°	1711.7	1708.2	1709.1	1715.2	1719.6
7.5°	1699.5	1696.9	1696.9	1705.6	1710.0
10°	1682.0	1681.2	1681.2	1691.6	1697.7
12.5°	1657.6	1658.5	1662.0	1675.9	1686.4
15°	1628.8	1630.5	1637.5	1657.6	1666.3
17.5°	1597.4	1597.4	1611.3	1627.0	1637.5
20°	1557.2	1559.8	1575.5	1593.0	1603.5
22.5°	1516.2	1520.6	1533.6	1553.7	1563.3
25°	1469.9	1475.2	1486.5	1505.7	1513.6
27.5°	1415.8	1422.8	1435.0	1449.0	1465.6
30°	1353.8	1364.3	1372.2	1391.4	1409.7
32.5°	1291.0	1300.6	1309.3	1329.4	1350.3
35°	1217.7	1228.1	1231.6	1261.3	1281.4
37.5°	1142.6	1147.0	1148.7	1178.4	1200.2
40°	1052.7	1061.4	1064.0	1087.6	1101.6
42.5°	966.3	969.8	975.0	992.5	1009.0
45°	872.9	877.2	888.6	893.8	902.6
47.5°	775.1	788.2	801.3	784.7	785.6
50°	686.1	696.6	710.5	679.1	679.1
52.5°	606.6	611.9	612.8	586.6	591.8
55°	534.2	521.1	520.2	502.8	513.3
57.5°	461.8	444.3	438.2	432.9	445.2
60°	403.3	371.8	363.1	371.0	387.6
62.5°	355.3	315.1	298.5	318.6	333.4
65°	304.6	268.0	240.9	278.4	294.2
67.5°	265.4	230.4	195.5	248.8	260.1
70°	228.7	201.6	161.5	226.1	234.8
72.5°	199.0	178.1	139.7	204.3	214.7
75°	172.8	155.4	129.2	180.7	197.3
77.5°	151.9	132.7	120.5	156.2	176.3
80°	128.3	109.1	109.1	130.9	149.3
82.5°	101.3	85.5	88.2	106.5	119.6
85°	67.2	62.8	59.4	77.7	84.7
87.5°	34.0	34.9	31.4	40.2	41.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)