

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: P292200

Luminaire Tested: **22GR-LD5-36-A-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292200
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-4500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3664.0 lumens
Efficiency: N/A
Efficacy: 127.9 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

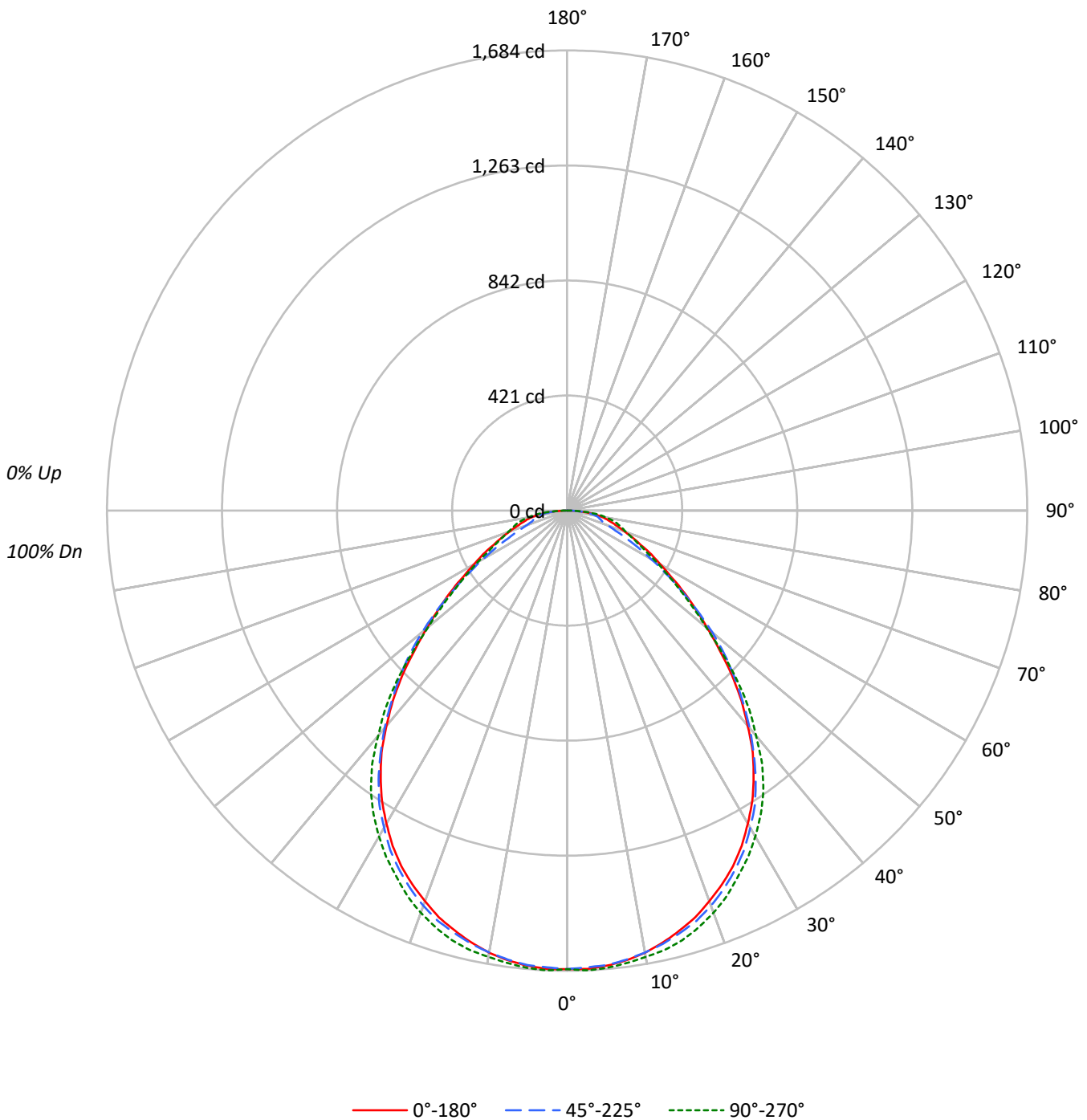
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4515	4515	4515
5°	4517	4510	4537
10°	4489	4487	4532
15°	4432	4456	4535
20°	4356	4407	4485
25°	4263	4311	4390
30°	4109	4165	4279
35°	3907	3952	4112
40°	3612	3651	3780
45°	3245	3303	3355
50°	2806	2905	2777
55°	2448	2384	2352
60°	2120	1909	2038
65°	1895	1498	1829
70°	1758	1241	1805
75°	1755	1312	2004
80°	1942	1652	2259
85°	2029	1791	2553



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.8	4.3
10°-20°	452.2	12.3
20°-30°	668.9	18.3
30°-40°	754.8	20.6
40°-50°	665.4	18.2
50°-60°	456.4	12.5
60°-70°	269.3	7.4
70°-80°	168.1	4.6
80°-90°	70.1	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°	1279.9	34.9
0°-40°	2034.7	55.5
0°-60°	3156.5	86.1
0°-90°	3664.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3664.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1678	1678	1678	1678	1678	
5°	1672	1669	1670	1675	1680	159
15°	1591	1593	1600	1619	1628	448
25°	1436	1441	1452	1471	1478	659
35°	1189	1200	1203	1232	1252	741
45°	853	857	868	873	882	655
55°	522	509	508	491	501	468
65°	298	262	235	272	287	300
75°	169	152	126	176	193	181
85°	66	61	58	76	83	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1678.0	1678.0	1678.0	1678.0	1678.0
2.5°	1678.8	1674.6	1672.9	1679.7	1683.9
5°	1672.0	1668.6	1669.5	1675.4	1679.7
7.5°	1660.1	1657.5	1657.5	1666.0	1670.3
10°	1643.0	1642.2	1642.2	1652.4	1658.4
12.5°	1619.1	1620.0	1623.4	1637.1	1647.3
15°	1591.0	1592.7	1599.5	1619.1	1627.7
17.5°	1560.3	1560.3	1574.0	1589.3	1599.5
20°	1521.1	1523.7	1539.0	1556.1	1566.3
22.5°	1481.0	1485.3	1498.1	1517.7	1527.1
25°	1435.8	1440.9	1452.0	1470.8	1478.5
27.5°	1383.0	1389.8	1401.7	1415.4	1431.6
30°	1322.4	1332.7	1340.3	1359.1	1377.0
32.5°	1261.0	1270.4	1278.9	1298.6	1319.0
35°	1189.4	1199.7	1203.1	1232.1	1251.7
37.5°	1116.1	1120.4	1122.1	1151.1	1172.4
40°	1028.3	1036.8	1039.4	1062.4	1076.0
42.5°	943.9	947.3	952.4	969.4	985.6
45°	852.6	856.9	868.0	873.1	881.6
47.5°	757.1	769.9	782.7	766.5	767.4
50°	670.2	680.4	694.0	663.3	663.3
52.5°	592.6	597.7	598.5	573.0	578.1
55°	521.8	509.0	508.2	491.1	501.3
57.5°	451.0	434.0	428.0	422.9	434.8
60°	393.9	363.2	354.7	362.4	378.6
62.5°	347.0	307.8	291.6	311.2	325.7
65°	297.6	261.8	235.3	272.0	287.3
67.5°	259.2	225.1	191.0	243.0	254.1
70°	223.4	197.0	157.7	220.8	229.4
72.5°	194.4	173.9	136.4	199.5	209.7
75°	168.8	151.8	126.2	176.5	192.7
77.5°	148.4	129.6	117.7	152.6	172.2
80°	125.3	106.6	106.6	127.9	145.8
82.5°	98.9	83.6	86.1	104.0	116.8
85°	65.7	61.4	58.0	75.9	82.7
87.5°	33.3	34.1	30.7	39.2	40.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)