

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: P292203

Luminaire Tested: **22GR-LD5-36-A-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292203
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-5700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3761.0 lumens
Efficiency: N/A
Efficacy: 130.5 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

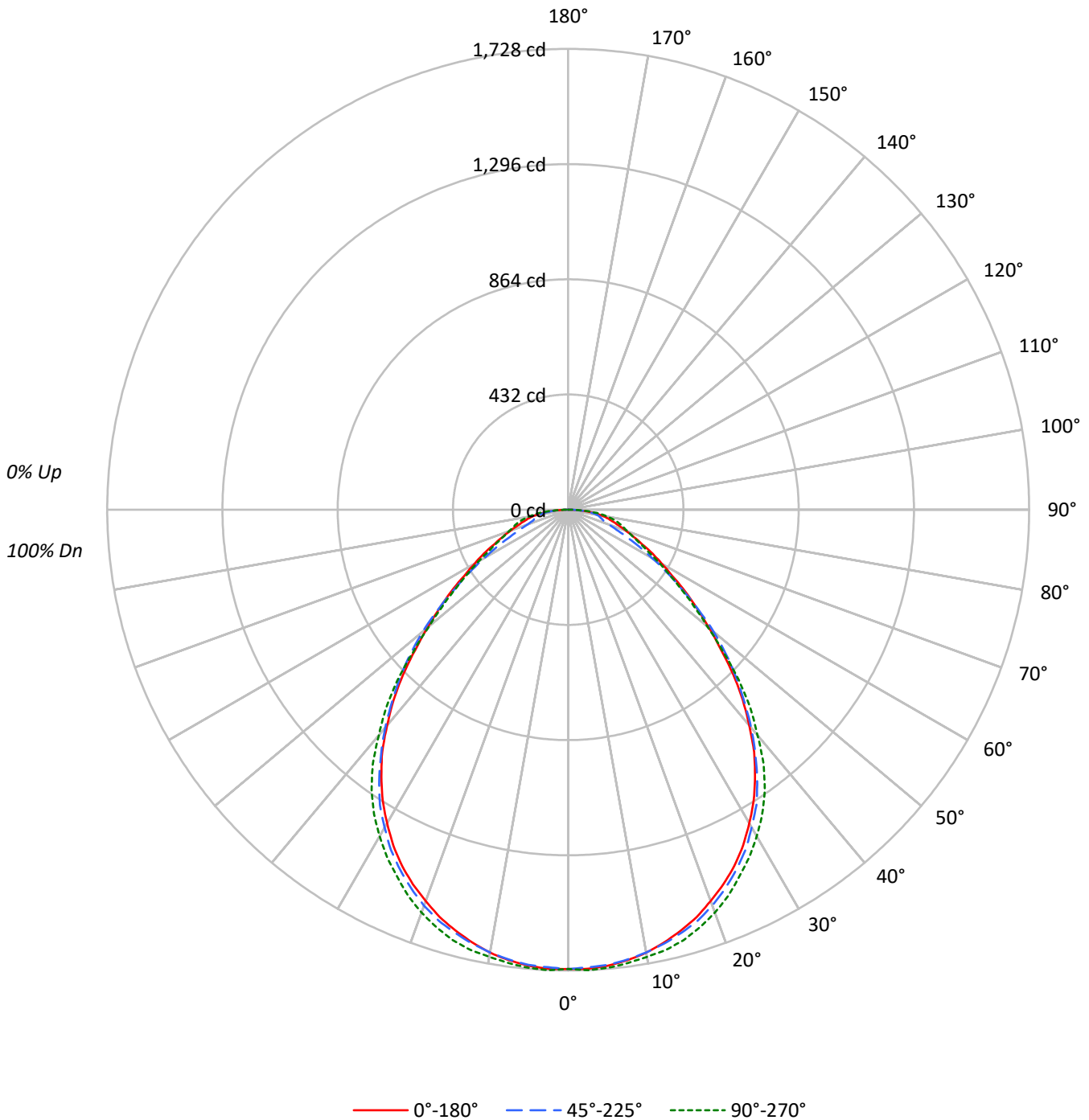
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4635	4635	4635
5°	4636	4629	4658
10°	4608	4606	4652
15°	4550	4574	4655
20°	4471	4524	4604
25°	4376	4426	4506
30°	4218	4275	4392
35°	4011	4057	4221
40°	3708	3748	3880
45°	3331	3391	3444
50°	2880	2982	2851
55°	2513	2447	2414
60°	2176	1960	2091
65°	1945	1538	1878
70°	1804	1274	1852
75°	1802	1346	2057
80°	1994	1695	2320
85°	2081	1837	2621



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	4.3
10°-20°	464.2	12.3
20°-30°	686.6	18.3
30°-40°	774.8	20.6
40°-50°	683.0	18.2
50°-60°	468.5	12.5
60°-70°	276.5	7.4
70°-80°	172.5	4.6
80°-90°	71.9	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°	1313.8	34.9
0°-40°	2088.6	55.5
0°-60°	3240.1	86.1
0°-90°	3761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1716	1713	1714	1720	1724	163
15°	1633	1635	1642	1662	1671	460
25°	1474	1479	1490	1510	1518	677
35°	1221	1231	1235	1265	1285	761
45°	875	880	891	896	905	672
55°	536	522	522	504	515	480
65°	305	269	242	279	295	308
75°	173	156	130	181	198	186
85°	67	63	60	78	85	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1722.4	1722.4	1722.4	1722.4	1722.4
2.5°	1723.3	1718.9	1717.2	1724.2	1728.5
5°	1716.3	1712.8	1713.6	1719.8	1724.2
7.5°	1704.0	1701.4	1701.4	1710.1	1714.5
10°	1686.5	1685.6	1685.6	1696.1	1702.3
12.5°	1662.0	1662.9	1666.4	1680.4	1690.9
15°	1633.1	1634.9	1641.9	1662.0	1670.8
17.5°	1601.6	1601.6	1615.6	1631.4	1641.9
20°	1561.4	1564.0	1579.7	1597.2	1607.8
22.5°	1520.2	1524.6	1537.7	1557.9	1567.5
25°	1473.8	1479.1	1490.5	1509.7	1517.6
27.5°	1419.6	1426.6	1438.8	1452.8	1469.5
30°	1357.4	1367.9	1375.8	1395.1	1413.5
32.5°	1294.4	1304.1	1312.8	1332.9	1353.9
35°	1220.9	1231.4	1234.9	1264.7	1284.8
37.5°	1145.6	1150.0	1151.8	1181.5	1203.4
40°	1055.5	1064.2	1066.9	1090.5	1104.5
42.5°	968.9	972.4	977.6	995.1	1011.7
45°	875.2	879.6	891.0	896.2	905.0
47.5°	777.2	790.3	803.4	786.8	787.7
50°	687.9	698.4	712.4	680.9	680.9
52.5°	608.3	613.5	614.4	588.1	593.4
55°	535.6	522.5	521.6	504.1	514.6
57.5°	463.0	445.5	439.4	434.1	446.4
60°	404.3	372.8	364.1	372.0	388.6
62.5°	356.2	315.9	299.3	319.4	334.3
65°	305.4	268.7	241.6	279.2	294.9
67.5°	266.1	231.1	196.0	249.4	260.8
70°	229.3	202.2	161.9	226.7	235.4
72.5°	199.5	178.5	140.0	204.8	215.3
75°	173.3	155.8	129.5	181.2	197.8
77.5°	152.3	133.0	120.8	156.7	176.8
80°	128.7	109.4	109.4	131.3	149.7
82.5°	101.5	85.8	88.4	106.8	119.9
85°	67.4	63.0	59.5	77.9	84.9
87.5°	34.1	35.0	31.5	40.3	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)