

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: P292300

Luminaire Tested: **22GR-LD5-36-A-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292300
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-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3386.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

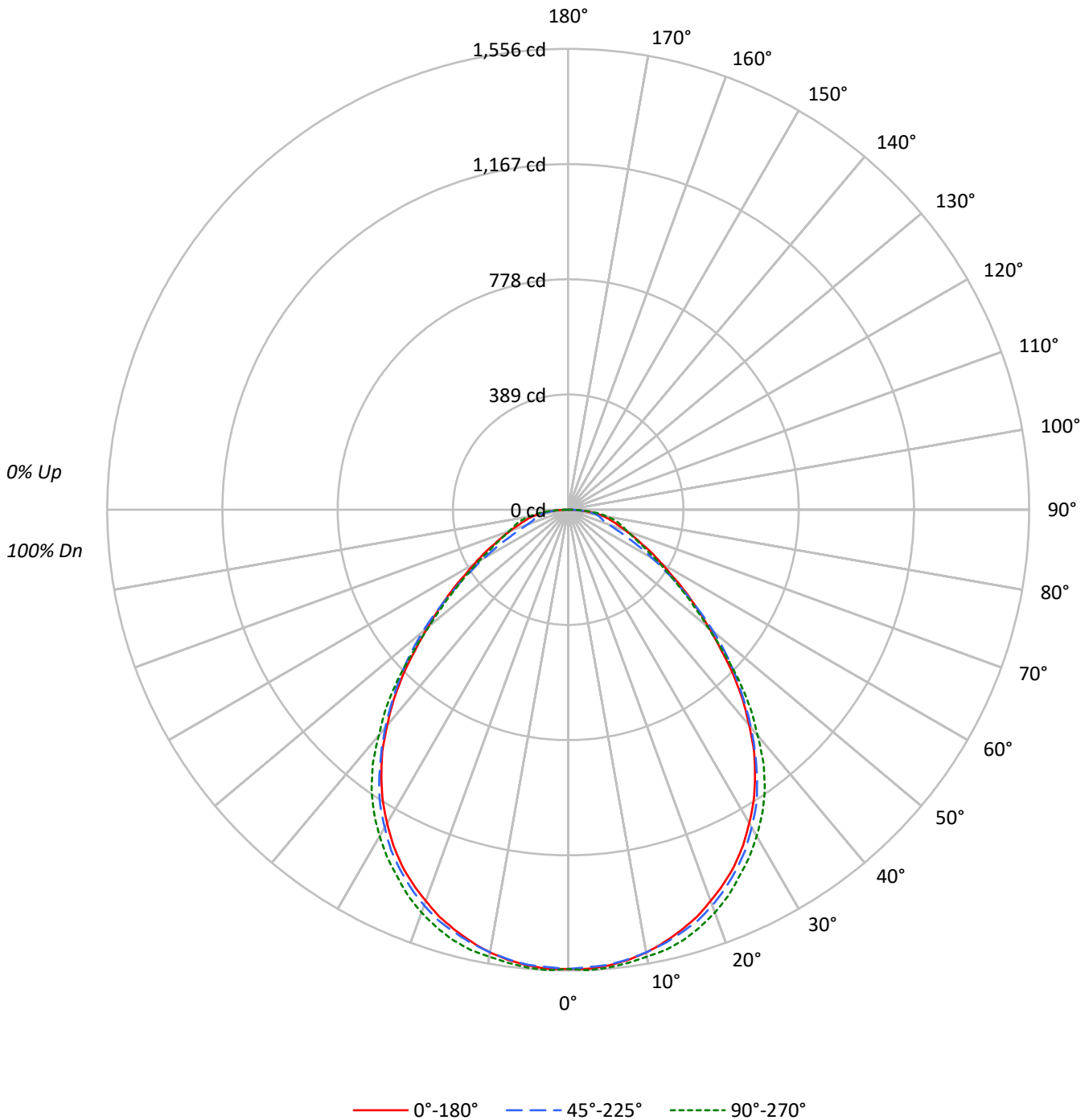
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4173	4173	4173
5°	4174	4168	4193
10°	4149	4147	4188
15°	4096	4118	4191
20°	4025	4073	4145
25°	3940	3984	4057
30°	3797	3849	3954
35°	3611	3652	3800
40°	3338	3374	3493
45°	2998	3052	3100
50°	2593	2685	2566
55°	2262	2203	2174
60°	1959	1764	1883
65°	1751	1385	1691
70°	1624	1147	1668
75°	1622	1212	1852
80°	1795	1526	2087
85°	1874	1655	2359



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.7	4.3
10°-20°	417.9	12.3
20°-30°	618.1	18.3
30°-40°	697.5	20.6
40°-50°	614.9	18.2
50°-60°	421.8	12.5
60°-70°	248.9	7.4
70°-80°	155.3	4.6
80°-90°	64.8	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°	1182.8	34.9
0°-40°	1880.3	55.5
0°-60°	2917.0	86.1
0°-90°	3386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3386.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1545	1542	1543	1548	1552	147
15°	1470	1472	1478	1496	1504	414
25°	1327	1332	1342	1359	1366	609
35°	1099	1109	1112	1139	1157	685
45°	788	792	802	807	815	605
55°	482	470	470	454	463	433
65°	275	242	218	251	266	277
75°	156	140	117	163	178	167
85°	61	57	54	70	76	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1550.7	1550.7	1550.7	1550.7	1550.7
2.5°	1551.5	1547.5	1545.9	1552.2	1556.2
5°	1545.1	1542.0	1542.8	1548.3	1552.2
7.5°	1534.1	1531.8	1531.8	1539.6	1543.6
10°	1518.4	1517.6	1517.6	1527.0	1532.5
12.5°	1496.3	1497.1	1500.2	1512.8	1522.3
15°	1470.3	1471.9	1478.2	1496.3	1504.2
17.5°	1441.9	1441.9	1454.5	1468.7	1478.2
20°	1405.7	1408.0	1422.2	1438.0	1447.4
22.5°	1368.7	1372.6	1384.4	1402.5	1411.2
25°	1326.9	1331.6	1341.9	1359.2	1366.3
27.5°	1278.0	1284.3	1295.4	1308.0	1323.0
30°	1222.1	1231.5	1238.6	1256.0	1272.5
32.5°	1165.4	1174.0	1181.9	1200.0	1218.9
35°	1099.2	1108.6	1111.8	1138.6	1156.7
37.5°	1031.4	1035.4	1036.9	1063.7	1083.4
40°	950.3	958.1	960.5	981.8	994.4
42.5°	872.2	875.4	880.1	895.9	910.9
45°	787.9	791.9	802.1	806.9	814.7
47.5°	699.7	711.5	723.3	708.4	709.1
50°	619.3	628.8	641.4	613.0	613.0
52.5°	547.6	552.3	553.1	529.5	534.2
55°	482.2	470.4	469.6	453.9	463.3
57.5°	416.8	401.1	395.5	390.8	401.8
60°	364.0	335.7	327.8	334.9	349.8
62.5°	320.7	284.4	269.5	287.6	301.0
65°	275.0	241.9	217.5	251.4	265.5
67.5°	239.5	208.0	176.5	224.6	234.8
70°	206.4	182.0	145.8	204.1	212.0
72.5°	179.7	160.7	126.1	184.4	193.8
75°	156.0	140.3	116.6	163.1	178.1
77.5°	137.1	119.8	108.7	141.0	159.2
80°	115.8	98.5	98.5	118.2	134.7
82.5°	91.4	77.2	79.6	96.1	107.9
85°	60.7	56.7	53.6	70.1	76.4
87.5°	30.7	31.5	28.4	36.2	37.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)