

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: P292295

Luminaire Tested: **22GR-LD5-36-A-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292295
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-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2939.0 lumens
Efficiency: N/A
Efficacy: 105.7 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

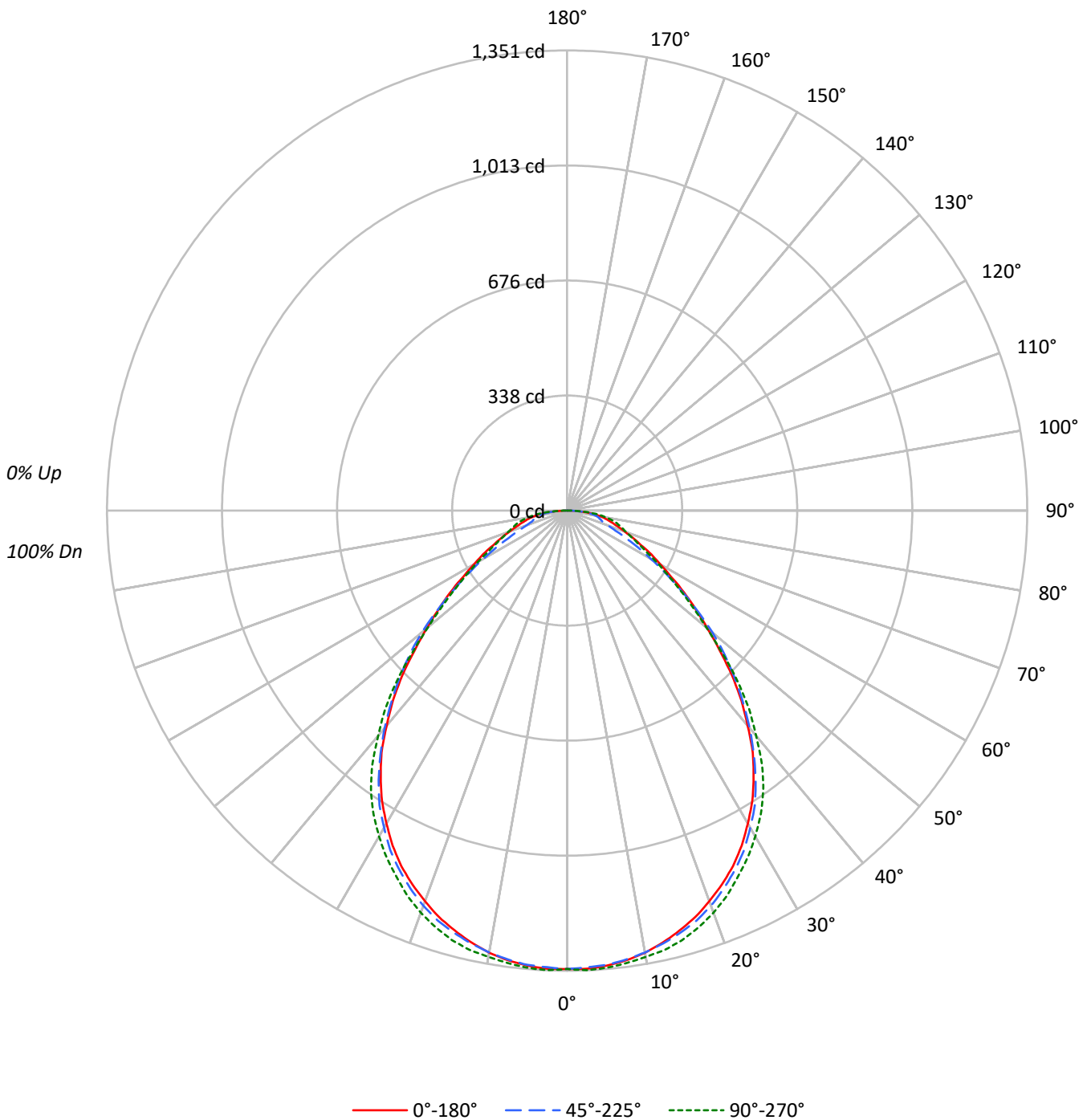
Input Watts (W): 27.807
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3622	3622	3622
5°	3623	3617	3639
10°	3601	3599	3635
15°	3555	3574	3637
20°	3494	3535	3598
25°	3420	3458	3521
30°	3296	3341	3432
35°	3134	3170	3298
40°	2897	2929	3032
45°	2603	2649	2691
50°	2251	2331	2228
55°	1964	1912	1886
60°	1701	1531	1635
65°	1520	1202	1468
70°	1410	995	1448
75°	1408	1052	1607
80°	1557	1325	1813
85°	1627	1436	2047



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	4.3
10°-20°	362.8	12.3
20°-30°	536.5	18.3
30°-40°	605.4	20.6
40°-50°	533.7	18.2
50°-60°	366.1	12.5
60°-70°	216.1	7.4
70°-80°	134.8	4.6
80°-90°	56.2	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°	1026.6	34.9
0°-40°	1632.1	55.5
0°-60°	2531.9	86.1
0°-90°	2939.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1341	1338	1339	1344	1347	127
15°	1276	1278	1283	1299	1306	360
25°	1152	1156	1165	1180	1186	529
35°	954	962	965	988	1004	595
45°	684	687	696	700	707	525
55°	419	408	408	394	402	375
65°	239	210	189	218	230	240
75°	135	122	101	142	155	145
85°	53	49	46	61	66	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.0	1346.0	1346.0	1346.0	1346.0
2.5°	1346.6	1343.2	1341.9	1347.3	1350.7
5°	1341.2	1338.4	1339.1	1343.9	1347.3
7.5°	1331.6	1329.5	1329.5	1336.4	1339.8
10°	1317.9	1317.2	1317.2	1325.4	1330.2
12.5°	1298.8	1299.4	1302.2	1313.1	1321.3
15°	1276.2	1277.6	1283.0	1298.8	1305.6
17.5°	1251.6	1251.6	1262.5	1274.8	1283.0
20°	1220.1	1222.2	1234.5	1248.2	1256.4
22.5°	1188.0	1191.4	1201.6	1217.4	1224.9
25°	1151.7	1155.8	1164.7	1179.8	1185.9
27.5°	1109.3	1114.8	1124.4	1135.3	1148.3
30°	1060.8	1069.0	1075.1	1090.2	1104.5
32.5°	1011.5	1019.0	1025.9	1041.6	1058.0
35°	954.1	962.3	965.0	988.3	1004.0
37.5°	895.3	898.7	900.0	923.3	940.4
40°	824.8	831.6	833.7	852.2	863.1
42.5°	757.1	759.8	763.9	777.6	790.6
45°	683.9	687.3	696.2	700.3	707.2
47.5°	607.3	617.6	627.8	614.8	615.5
50°	537.6	545.8	556.7	532.1	532.1
52.5°	475.3	479.4	480.1	459.6	463.7
55°	418.6	408.3	407.6	393.9	402.1
57.5°	361.8	348.1	343.3	339.2	348.8
60°	316.0	291.4	284.5	290.7	303.7
62.5°	278.4	246.9	233.9	249.6	261.3
65°	238.7	210.0	188.8	218.2	230.5
67.5°	207.9	180.6	153.2	194.9	203.8
70°	179.2	158.0	126.5	177.1	184.0
72.5°	155.9	139.5	109.4	160.0	168.2
75°	135.4	121.7	101.2	141.6	154.6
77.5°	119.0	104.0	94.4	122.4	138.2
80°	100.5	85.5	85.5	102.6	117.0
82.5°	79.3	67.0	69.1	83.4	93.7
85°	52.7	49.2	46.5	60.9	66.3
87.5°	26.7	27.4	24.6	31.5	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)