

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: P292296

Luminaire Tested: **22GR-LD5-36-A-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292296
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-3500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3086.0 lumens
Efficiency: N/A
Efficacy: 109.5 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

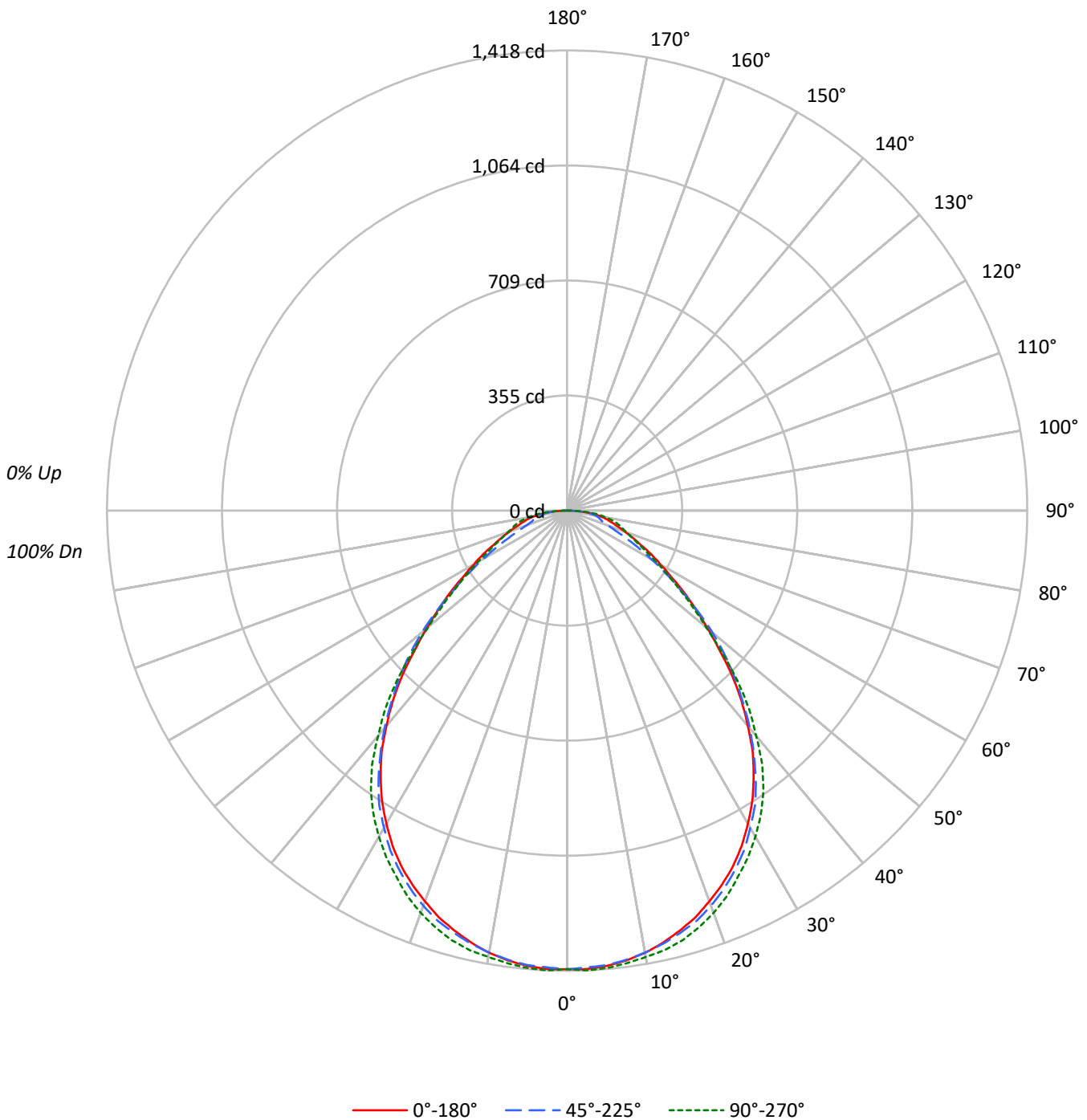
Input Watts (W): 28.179
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3803	3803	3803
5°	3804	3798	3821
10°	3781	3779	3817
15°	3733	3753	3819
20°	3669	3712	3778
25°	3591	3631	3697
30°	3461	3508	3604
35°	3291	3329	3463
40°	3042	3075	3184
45°	2733	2782	2826
50°	2363	2447	2339
55°	2062	2008	1981
60°	1786	1608	1716
65°	1596	1262	1541
70°	1480	1046	1520
75°	1478	1105	1687
80°	1636	1392	1903
85°	1707	1507	2152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.7	4.3
10°-20°	380.9	12.3
20°-30°	563.4	18.3
30°-40°	635.7	20.6
40°-50°	560.4	18.2
50°-60°	384.4	12.5
60°-70°	226.9	7.4
70°-80°	141.6	4.6
80°-90°	59.0	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°	1078.0	34.9
0°-40°	1713.7	55.5
0°-60°	2658.6	86.1
0°-90°	3086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1408	1405	1406	1411	1415	134
15°	1340	1342	1347	1364	1371	378
25°	1209	1214	1223	1239	1245	555
35°	1002	1010	1013	1038	1054	624
45°	718	722	731	735	742	552
55°	440	429	428	414	422	394
65°	251	220	198	229	242	252
75°	142	128	106	149	162	152
85°	55	52	49	64	70	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1413.3	1413.3	1413.3	1413.3	1413.3
2.5°	1414.0	1410.4	1409.0	1414.7	1418.3
5°	1408.2	1405.4	1406.1	1411.1	1414.7
7.5°	1398.2	1396.0	1396.0	1403.2	1406.8
10°	1383.8	1383.1	1383.1	1391.7	1396.8
12.5°	1363.7	1364.4	1367.3	1378.8	1387.4
15°	1340.0	1341.5	1347.2	1363.7	1370.9
17.5°	1314.2	1314.2	1325.7	1338.6	1347.2
20°	1281.1	1283.3	1296.2	1310.6	1319.2
22.5°	1247.4	1251.0	1261.8	1278.3	1286.2
25°	1209.3	1213.6	1223.0	1238.8	1245.2
27.5°	1164.8	1170.5	1180.6	1192.1	1205.7
30°	1113.8	1122.4	1128.9	1144.7	1159.8
32.5°	1062.1	1070.0	1077.2	1093.7	1110.9
35°	1001.8	1010.4	1013.3	1037.7	1054.2
37.5°	940.0	943.6	945.1	969.5	987.4
40°	866.1	873.2	875.4	894.8	906.3
42.5°	795.0	797.8	802.1	816.5	830.2
45°	718.1	721.7	731.1	735.4	742.5
47.5°	637.7	648.5	659.2	645.6	646.3
50°	564.4	573.1	584.6	558.7	558.7
52.5°	499.1	503.4	504.1	482.6	486.9
55°	439.5	428.7	428.0	413.6	422.3
57.5°	379.9	365.5	360.5	356.2	366.2
60°	331.8	305.9	298.7	305.2	318.8
62.5°	292.3	259.2	245.6	262.1	274.3
65°	250.6	220.5	198.2	229.1	242.0
67.5°	218.3	189.6	160.9	204.7	214.0
70°	188.1	165.9	132.9	186.0	193.2
72.5°	163.7	146.5	114.9	168.0	176.7
75°	142.2	127.8	106.3	148.7	162.3
77.5°	125.0	109.2	99.1	128.5	145.1
80°	105.6	89.8	89.8	107.7	122.8
82.5°	83.3	70.4	72.5	87.6	98.4
85°	55.3	51.7	48.8	63.9	69.7
87.5°	28.0	28.7	25.9	33.0	33.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)