

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: P292244

Luminaire Tested: **22GR-LD5-36-A-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292244
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-L93050-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: 3066.0 lumens
Efficiency: N/A
Efficacy: 107.0 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

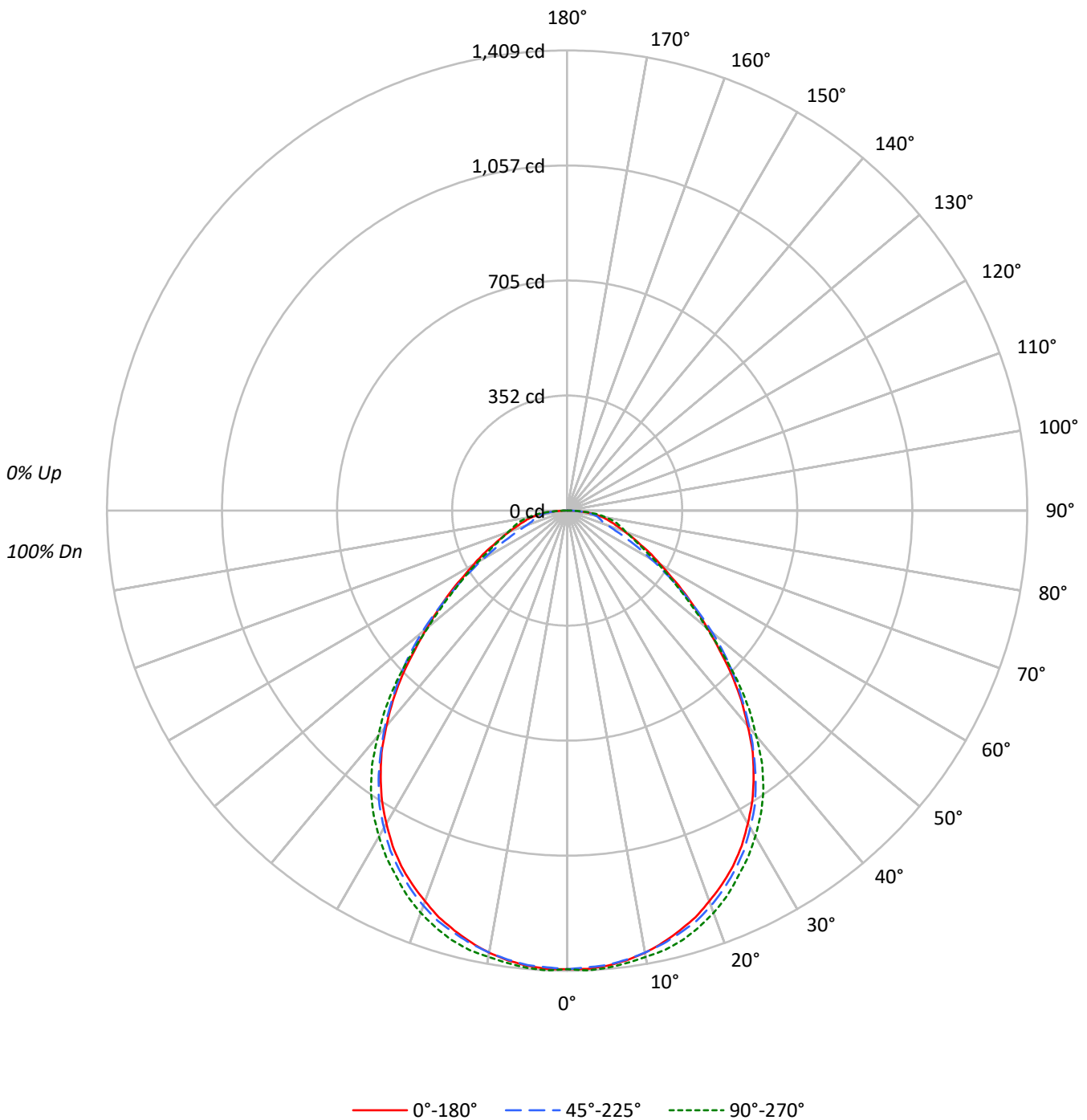
Input Watts (W): 28.644
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3778	3778	3778
5°	3779	3774	3797
10°	3757	3755	3792
15°	3709	3729	3794
20°	3645	3688	3753
25°	3567	3608	3673
30°	3439	3485	3581
35°	3270	3307	3441
40°	3022	3055	3163
45°	2715	2764	2807
50°	2348	2431	2324
55°	2048	1995	1968
60°	1774	1597	1705
65°	1585	1254	1531
70°	1471	1039	1510
75°	1469	1098	1676
80°	1626	1382	1891
85°	1695	1497	2137



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	4.3
10°-20°	378.4	12.3
20°-30°	559.7	18.3
30°-40°	631.6	20.6
40°-50°	556.8	18.2
50°-60°	382.0	12.5
60°-70°	225.4	7.4
70°-80°	140.6	4.6
80°-90°	58.6	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°	1071.0	34.9
0°-40°	1702.6	55.5
0°-60°	2641.4	86.1
0°-90°	3066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1399	1396	1397	1402	1406	133
15°	1331	1333	1338	1355	1362	375
25°	1202	1206	1215	1231	1237	552
35°	995	1004	1007	1031	1047	620
45°	714	717	726	731	738	548
55°	437	426	425	411	420	392
65°	249	219	197	228	240	251
75°	141	127	106	148	161	151
85°	55	51	48	64	69	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1404.1	1404.1	1404.1	1404.1	1404.1
2.5°	1404.8	1401.3	1399.8	1405.5	1409.1
5°	1399.1	1396.3	1397.0	1402.0	1405.5
7.5°	1389.1	1387.0	1387.0	1394.1	1397.7
10°	1374.9	1374.2	1374.2	1382.7	1387.7
12.5°	1354.9	1355.6	1358.5	1369.9	1378.4
15°	1331.3	1332.8	1338.5	1354.9	1362.0
17.5°	1305.7	1305.7	1317.1	1329.9	1338.5
20°	1272.8	1275.0	1287.8	1302.1	1310.7
22.5°	1239.3	1242.9	1253.6	1270.0	1277.8
25°	1201.5	1205.8	1215.0	1230.7	1237.2
27.5°	1157.3	1163.0	1173.0	1184.4	1197.9
30°	1106.6	1115.2	1121.6	1137.3	1152.3
32.5°	1055.2	1063.1	1070.2	1086.6	1103.7
35°	995.3	1003.9	1006.7	1031.0	1047.4
37.5°	933.9	937.5	938.9	963.2	981.0
40°	860.4	867.6	869.7	889.0	900.4
42.5°	789.8	792.7	797.0	811.2	824.8
45°	713.5	717.0	726.3	730.6	737.7
47.5°	633.6	644.3	655.0	641.4	642.1
50°	560.8	569.4	580.8	555.1	555.1
52.5°	495.9	500.1	500.9	479.5	483.7
55°	436.6	425.9	425.2	411.0	419.5
57.5°	377.4	363.2	358.2	353.9	363.9
60°	329.6	303.9	296.8	303.2	316.8
62.5°	290.4	257.6	244.0	260.4	272.5
65°	249.0	219.0	196.9	227.6	240.4
67.5°	216.9	188.4	159.8	203.3	212.6
70°	186.9	164.8	132.0	184.8	191.9
72.5°	162.7	145.5	114.2	167.0	175.5
75°	141.3	127.0	105.6	147.7	161.2
77.5°	124.1	108.4	98.5	127.7	144.1
80°	104.9	89.2	89.2	107.0	122.0
82.5°	82.8	69.9	72.1	87.0	97.7
85°	54.9	51.4	48.5	63.5	69.2
87.5°	27.8	28.5	25.7	32.8	33.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)