

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: P292145

Luminaire Tested: **22GR-LD5-36-A-UNV-L83050-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292145
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-L83050-W2A1-U-3000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3409.0 lumens
Efficiency: N/A
Efficacy: 121.8 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

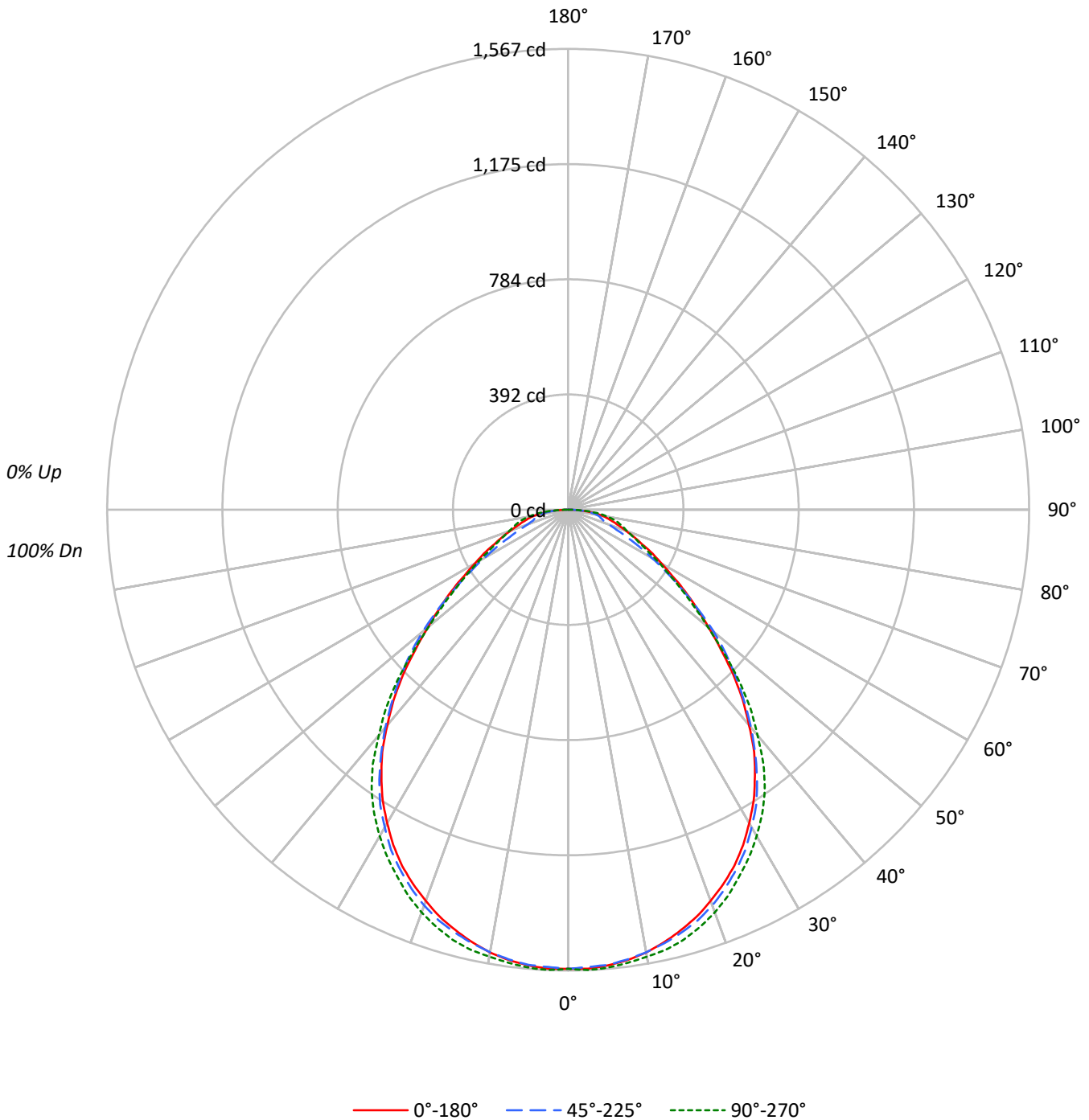
Input Watts (W): 27.993
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4201	4201	4201
5°	4202	4196	4222
10°	4177	4175	4216
15°	4124	4146	4219
20°	4053	4101	4173
25°	3967	4011	4084
30°	3823	3875	3981
35°	3635	3677	3826
40°	3361	3397	3517
45°	3019	3073	3122
50°	2610	2703	2584
55°	2278	2218	2189
60°	1972	1776	1896
65°	1763	1394	1702
70°	1635	1155	1679
75°	1633	1221	1864
80°	1807	1537	2103
85°	1886	1664	2374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.7	4.3
10°-20°	420.8	12.3
20°-30°	622.3	18.3
30°-40°	702.3	20.6
40°-50°	619.1	18.2
50°-60°	424.7	12.5
60°-70°	250.6	7.4
70°-80°	156.4	4.6
80°-90°	65.2	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°	1190.8	34.9
0°-40°	1893.1	55.5
0°-60°	2936.8	86.1
0°-90°	3409.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3409.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1561	1561	1561	1561	1561	
5°	1556	1552	1553	1559	1563	148
15°	1480	1482	1488	1506	1514	417
25°	1336	1341	1351	1368	1376	614
35°	1107	1116	1119	1146	1165	690
45°	793	797	808	812	820	609
55°	486	474	473	457	466	435
65°	277	244	219	253	267	279
75°	157	141	117	164	179	168
85°	61	57	54	71	77	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1561.2	1561.2	1561.2	1561.2	1561.2
2.5°	1562.0	1558.0	1556.4	1562.8	1566.8
5°	1555.6	1552.5	1553.3	1558.8	1562.8
7.5°	1544.5	1542.2	1542.2	1550.1	1554.1
10°	1528.7	1527.9	1527.9	1537.4	1543.0
12.5°	1506.5	1507.3	1510.4	1523.1	1532.6
15°	1480.3	1481.9	1488.2	1506.5	1514.4
17.5°	1451.7	1451.7	1464.4	1478.7	1488.2
20°	1415.2	1417.6	1431.9	1447.8	1457.3
22.5°	1377.9	1381.9	1393.8	1412.1	1420.8
25°	1335.9	1340.7	1351.0	1368.4	1375.6
27.5°	1286.7	1293.1	1304.2	1316.9	1331.9
30°	1230.4	1239.9	1247.1	1264.5	1281.2
32.5°	1173.3	1182.0	1189.9	1208.2	1227.2
35°	1106.6	1116.2	1119.3	1146.3	1164.6
37.5°	1038.4	1042.4	1044.0	1070.9	1090.8
40°	956.7	964.6	967.0	988.4	1001.1
42.5°	878.2	881.3	886.1	902.0	917.0
45°	793.3	797.3	807.6	812.3	820.3
47.5°	704.4	716.3	728.2	713.2	714.0
50°	623.5	633.0	645.7	617.2	617.2
52.5°	551.3	556.1	556.9	533.1	537.9
55°	485.5	473.6	472.8	456.9	466.5
57.5°	419.7	403.8	398.2	393.5	404.6
60°	366.5	337.9	330.0	337.1	352.2
62.5°	322.9	286.4	271.3	289.6	303.0
65°	276.9	243.5	218.9	253.1	267.3
67.5°	241.2	209.4	177.7	226.1	236.4
70°	207.8	183.3	146.8	205.5	213.4
72.5°	180.9	161.8	126.9	185.6	195.1
75°	157.1	141.2	117.4	164.2	179.3
77.5°	138.0	120.6	109.5	142.0	160.2
80°	116.6	99.2	99.2	119.0	135.7
82.5°	92.0	77.7	80.1	96.8	108.7
85°	61.1	57.1	53.9	70.6	76.9
87.5°	30.9	31.7	28.6	36.5	37.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)