

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: P292195

Luminaire Tested: **22GR-LD5-32-A-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292195
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-LD5-32-A-UNV-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH A LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3359.0 lumens
Efficiency: N/A
Efficacy: 130.9 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

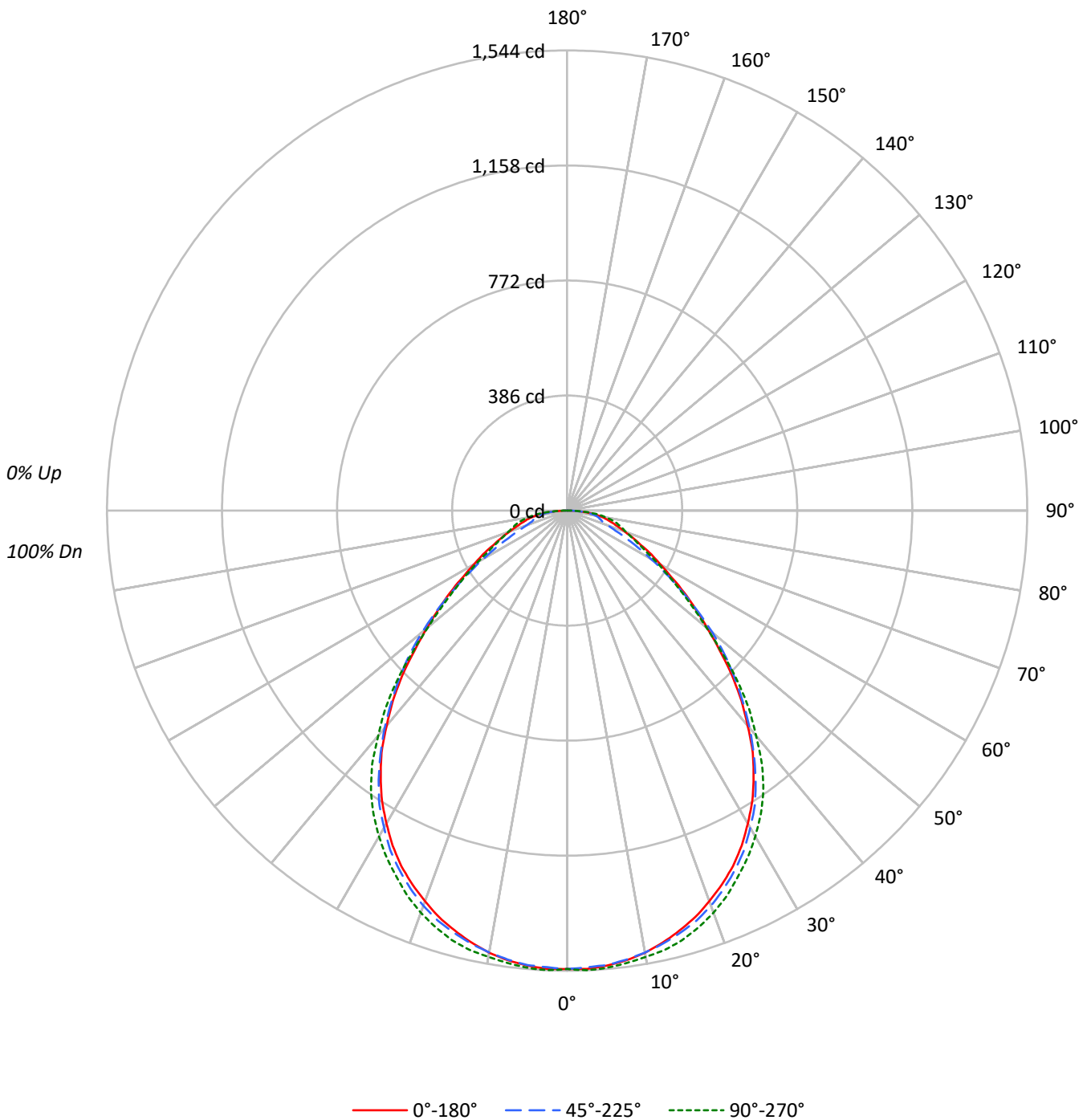
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4140	4140	4140
5°	4140	4134	4160
10°	4116	4114	4154
15°	4064	4085	4157
20°	3993	4040	4112
25°	3908	3953	4024
30°	3767	3818	3923
35°	3582	3623	3770
40°	3312	3347	3465
45°	2975	3028	3076
50°	2572	2664	2546
55°	2244	2186	2156
60°	1943	1750	1868
65°	1737	1373	1677
70°	1611	1138	1655
75°	1609	1203	1837
80°	1781	1514	2072
85°	1859	1643	2340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.6	4.3
10°-20°	414.6	12.3
20°-30°	613.2	18.3
30°-40°	692.0	20.6
40°-50°	610.0	18.2
50°-60°	418.4	12.5
60°-70°	246.9	7.4
70°-80°	154.1	4.6
80°-90°	64.3	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°	1173.4	34.9
0°-40°	1865.3	55.5
0°-60°	2893.8	86.1
0°-90°	3359.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3359.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1533	1530	1530	1536	1540	145
15°	1459	1460	1466	1484	1492	411
25°	1316	1321	1331	1348	1355	605
35°	1090	1100	1103	1130	1148	679
45°	782	786	796	800	808	600
55°	478	467	466	450	460	429
65°	273	240	216	249	263	275
75°	155	139	116	162	177	166
85°	60	56	53	70	76	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.3	1538.3	1538.3	1538.3	1538.3
2.5°	1539.1	1535.2	1533.6	1539.9	1543.8
5°	1532.8	1529.7	1530.5	1536.0	1539.9
7.5°	1521.9	1519.5	1519.5	1527.4	1531.3
10°	1506.3	1505.5	1505.5	1514.9	1520.3
12.5°	1484.4	1485.1	1488.3	1500.8	1510.2
15°	1458.6	1460.1	1466.4	1484.4	1492.2
17.5°	1430.4	1430.4	1442.9	1457.0	1466.4
20°	1394.5	1396.8	1410.9	1426.5	1435.9
22.5°	1357.7	1361.6	1373.4	1391.3	1399.9
25°	1316.3	1321.0	1331.2	1348.4	1355.4
27.5°	1267.8	1274.1	1285.0	1297.6	1312.4
30°	1212.3	1221.7	1228.8	1246.0	1262.4
32.5°	1156.1	1164.7	1172.5	1190.5	1209.2
35°	1090.4	1099.8	1102.9	1129.5	1147.5
37.5°	1023.2	1027.1	1028.7	1055.2	1074.8
40°	942.7	950.5	952.8	973.9	986.5
42.5°	865.3	868.4	873.1	888.7	903.6
45°	781.7	785.6	795.7	800.4	808.2
47.5°	694.1	705.8	717.6	702.7	703.5
50°	614.4	623.8	636.3	608.1	608.1
52.5°	543.3	547.9	548.7	525.3	530.0
55°	478.4	466.6	465.9	450.2	459.6
57.5°	413.5	397.9	392.4	387.7	398.6
60°	361.1	333.0	325.2	332.2	347.1
62.5°	318.1	282.2	267.3	285.3	298.6
65°	272.8	240.0	215.7	249.3	263.4
67.5°	237.6	206.4	175.1	222.8	232.9
70°	204.8	180.6	144.6	202.4	210.3
72.5°	178.2	159.5	125.1	182.9	192.3
75°	154.8	139.1	115.7	161.8	176.7
77.5°	136.0	118.8	107.9	139.9	157.9
80°	114.9	97.7	97.7	117.2	133.7
82.5°	90.7	76.6	78.9	95.4	107.1
85°	60.2	56.3	53.2	69.6	75.8
87.5°	30.5	31.3	28.1	36.0	36.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)