

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: P291899

Luminaire Tested: **22GR-LD5-32-F1-UNV-L92765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291899
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-084-23)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-32-F1-UNV-L92765-W2A1-U-5500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3025.0 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

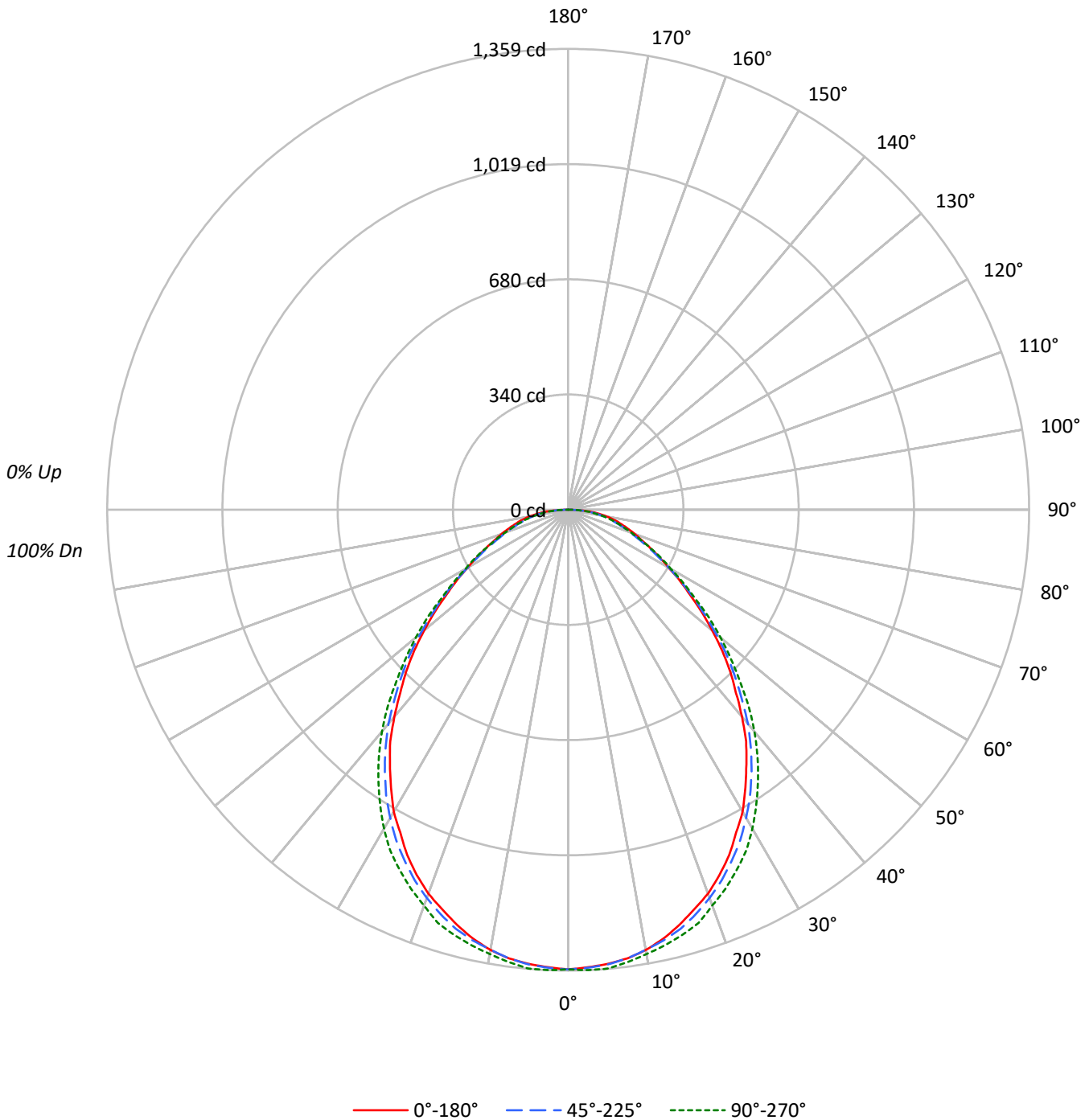
Input Watts (W): 25.203
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	66	59	83	73	65	59	70	63	58	68	62	57	66	61	57	55					55			
5	79	67	58	52	77	66	58	52	63	56	51	62	55	51	60	54	50	48					48			
6	73	60	52	46	71	59	51	46	58	51	45	56	50	45	55	49	45	43					43			
7	68	55	47	41	66	54	46	41	53	46	41	51	45	40	50	44	40	38					38			
8	63	51	42	37	62	50	42	37	49	42	37	47	41	36	46	40	36	34					34			
9	59	47	39	33	58	46	39	33	45	38	33	44	38	33	43	37	33	31					31			
10	56	43	36	31	55	43	35	30	42	35	30	41	35	30	40	34	30	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3648	3648	3648
5°	3632	3635	3669
10°	3603	3601	3636
15°	3531	3565	3618
20°	3450	3490	3558
25°	3336	3390	3484
30°	3195	3260	3375
35°	3008	3095	3205
40°	2799	2895	3000
45°	2570	2644	2726
50°	2318	2377	2452
55°	2057	2106	2142
60°	1843	1847	1885
65°	1699	1642	1699
70°	1640	1520	1563
75°	1669	1488	1517
80°	1798	1561	1561
85°	1995	1652	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.9	4.2
10°-20°	360.7	11.9
20°-30°	526.4	17.4
30°-40°	589.3	19.5
40°-50°	536.4	17.7
50°-60°	403.7	13.3
60°-70°	263.4	8.7
70°-80°	158.0	5.2
80°-90°	59.2	2.0
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°	1014.9	33.6
0°-40°	1604.3	53.0
0°-60°	2544.3	84.1
0°-90°	3025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1356	1356	1356	1356	1356	
5°	1344	1342	1346	1351	1358	128
15°	1267	1269	1280	1290	1299	357
25°	1124	1127	1142	1162	1174	516
35°	916	924	942	964	976	572
45°	675	682	695	709	716	520
55°	438	445	449	455	456	396
65°	267	264	258	262	267	267
75°	160	155	143	144	146	170
85°	65	62	54	51	53	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1355.6	1355.6	1355.6	1355.6	1355.6
2.5°	1350.7	1350.0	1352.1	1355.6	1359.0
5°	1344.5	1342.4	1345.8	1350.7	1358.3
7.5°	1334.7	1334.7	1334.7	1343.8	1345.1
10°	1318.7	1320.1	1318.0	1327.1	1330.6
12.5°	1295.8	1296.5	1300.7	1309.7	1316.0
15°	1267.3	1268.7	1279.8	1290.3	1298.6
17.5°	1235.4	1240.2	1250.7	1267.3	1277.7
20°	1204.8	1210.4	1218.7	1236.8	1242.3
22.5°	1165.9	1172.1	1182.6	1198.5	1210.4
25°	1123.5	1127.0	1141.6	1162.4	1173.5
27.5°	1072.8	1080.4	1098.5	1120.0	1135.3
30°	1028.3	1032.5	1049.2	1074.2	1086.0
32.5°	972.0	984.5	998.4	1020.7	1031.8
35°	915.8	924.1	942.2	964.4	975.5
37.5°	861.6	866.4	884.5	903.2	917.1
40°	796.9	806.0	824.0	844.2	853.9
42.5°	732.3	745.5	757.3	777.5	787.9
45°	675.4	682.3	694.8	709.4	716.3
47.5°	615.6	619.1	633.7	642.7	650.3
50°	553.8	557.9	567.7	576.7	585.7
52.5°	496.8	500.3	506.5	514.9	523.9
55°	438.4	444.7	448.8	455.1	456.5
57.5°	391.2	390.5	393.3	398.1	403.0
60°	342.5	343.9	343.2	348.1	350.2
62.5°	302.2	301.5	297.4	304.3	309.9
65°	266.8	264.0	257.8	261.9	266.8
67.5°	234.1	232.8	222.3	225.8	230.0
70°	208.4	203.6	193.2	195.2	198.7
72.5°	183.4	177.9	167.4	168.1	170.2
75°	160.5	154.9	143.1	143.8	145.9
77.5°	139.0	132.0	121.6	120.2	121.6
80°	116.0	109.8	100.7	96.6	100.7
82.5°	92.4	88.9	78.5	74.3	75.7
85°	64.6	62.5	53.5	50.7	52.8
87.5°	29.9	32.0	27.1	25.0	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)