

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: P291803

Luminaire Tested: **22GR-LD5-32-F1-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291803
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-L82765-W2A1-U-6500K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F1 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3369.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

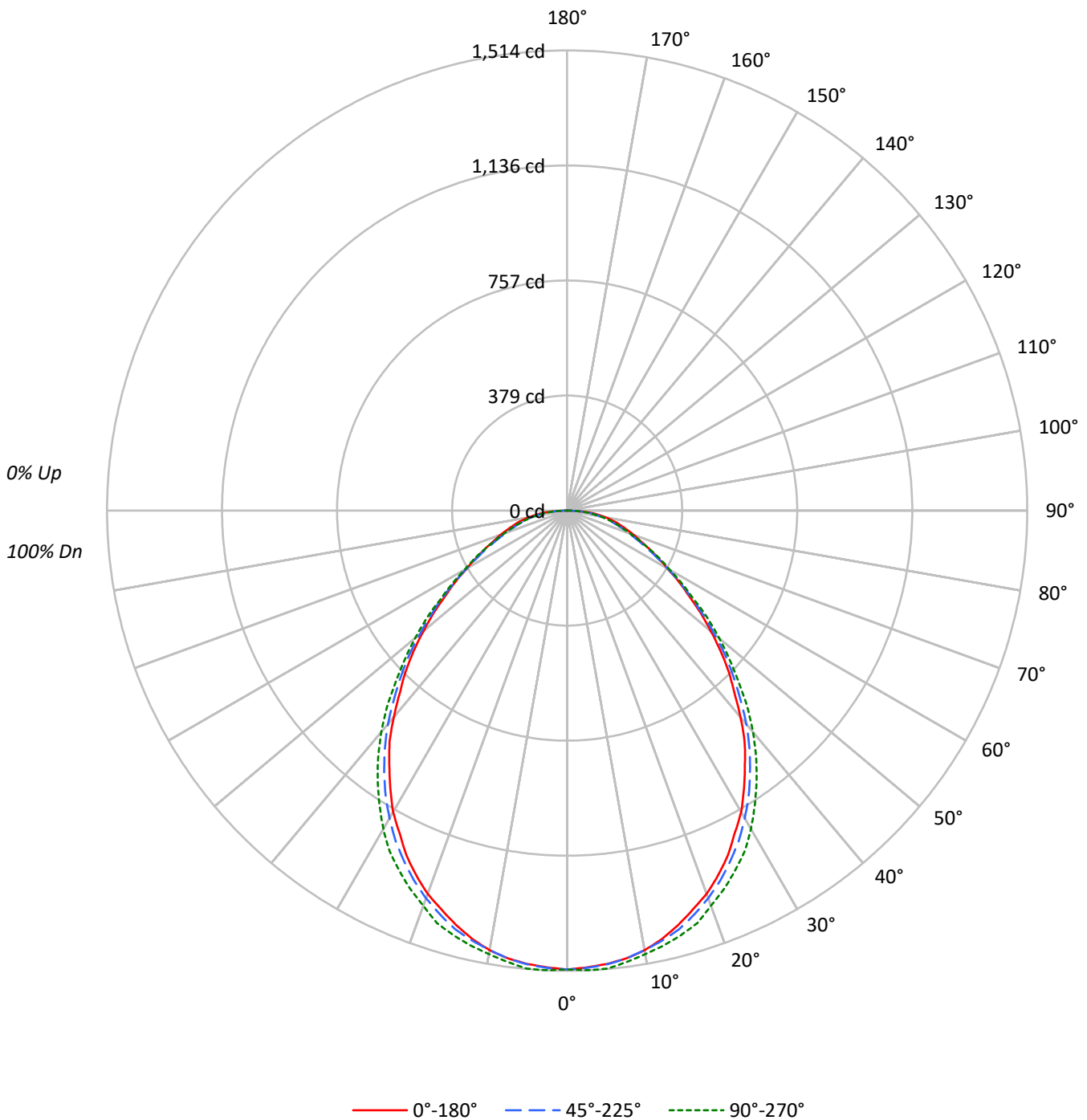
Input Watts (W): 25.668
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4063	4063	4063
5°	4045	4049	4086
10°	4013	4011	4049
15°	3932	3971	4029
20°	3842	3887	3962
25°	3715	3775	3881
30°	3559	3631	3758
35°	3350	3447	3569
40°	3118	3224	3341
45°	2863	2945	3036
50°	2582	2647	2731
55°	2291	2345	2385
60°	2053	2058	2099
65°	1892	1828	1892
70°	1826	1692	1741
75°	1859	1657	1690
80°	2002	1739	1739
85°	2223	1840	1815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.4	4.2
10°-20°	401.7	11.9
20°-30°	586.2	17.4
30°-40°	656.4	19.5
40°-50°	597.4	17.7
50°-60°	449.6	13.3
60°-70°	293.4	8.7
70°-80°	176.0	5.2
80°-90°	66.0	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°	1130.3	33.6
0°-40°	1786.7	53.0
0°-60°	2833.7	84.1
0°-90°	3369.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3369.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1497	1495	1499	1504	1513	142
15°	1411	1413	1425	1437	1446	398
25°	1251	1255	1271	1295	1307	574
35°	1020	1029	1049	1074	1086	637
45°	752	760	774	790	798	579
55°	488	495	500	507	508	441
65°	297	294	287	292	297	297
75°	179	173	159	160	162	190
85°	72	70	60	56	59	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1509.7	1509.7	1509.7	1509.7	1509.7
2.5°	1504.3	1503.5	1505.9	1509.7	1513.6
5°	1497.3	1495.0	1498.9	1504.3	1512.8
7.5°	1486.5	1486.5	1486.5	1496.6	1498.1
10°	1468.7	1470.3	1467.9	1478.0	1481.9
12.5°	1443.2	1443.9	1448.6	1458.6	1465.6
15°	1411.4	1413.0	1425.4	1437.0	1446.3
17.5°	1375.9	1381.3	1392.9	1411.4	1423.1
20°	1341.8	1348.0	1357.3	1377.4	1383.6
22.5°	1298.5	1305.4	1317.0	1334.8	1348.0
25°	1251.3	1255.1	1271.4	1294.6	1307.0
27.5°	1194.8	1203.3	1223.4	1247.4	1264.4
30°	1145.3	1149.9	1168.5	1196.3	1209.5
32.5°	1082.6	1096.5	1112.0	1136.7	1149.1
35°	1019.9	1029.2	1049.3	1074.1	1086.4
37.5°	959.5	965.0	985.1	1006.0	1021.4
40°	887.6	897.6	917.7	940.2	951.0
42.5°	815.6	830.3	843.5	865.9	877.5
45°	752.2	759.9	773.8	790.1	797.8
47.5°	685.6	689.5	705.7	715.8	724.3
50°	616.7	621.4	632.2	642.3	652.3
52.5°	553.3	557.1	564.1	573.4	583.5
55°	488.3	495.2	499.9	506.9	508.4
57.5°	435.7	434.9	438.0	443.4	448.8
60°	381.5	383.0	382.3	387.7	390.0
62.5°	336.6	335.8	331.2	338.9	345.1
65°	297.1	294.1	287.1	291.7	297.1
67.5°	260.8	259.2	247.6	251.5	256.1
70°	232.1	226.7	215.1	217.4	221.3
72.5°	204.3	198.1	186.5	187.3	189.6
75°	178.8	172.6	159.4	160.2	162.5
77.5°	154.8	147.0	135.4	133.9	135.4
80°	129.2	122.3	112.2	107.6	112.2
82.5°	102.9	99.0	87.4	82.8	84.3
85°	72.0	69.6	59.6	56.5	58.8
87.5°	33.3	35.6	30.2	27.9	28.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)