

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: P292103

Luminaire Tested: **22GR-LD5-36-F125-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33295)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22GR-LD5-36-F125-UNV-L92765-W2A1-U-5000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3344.0 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

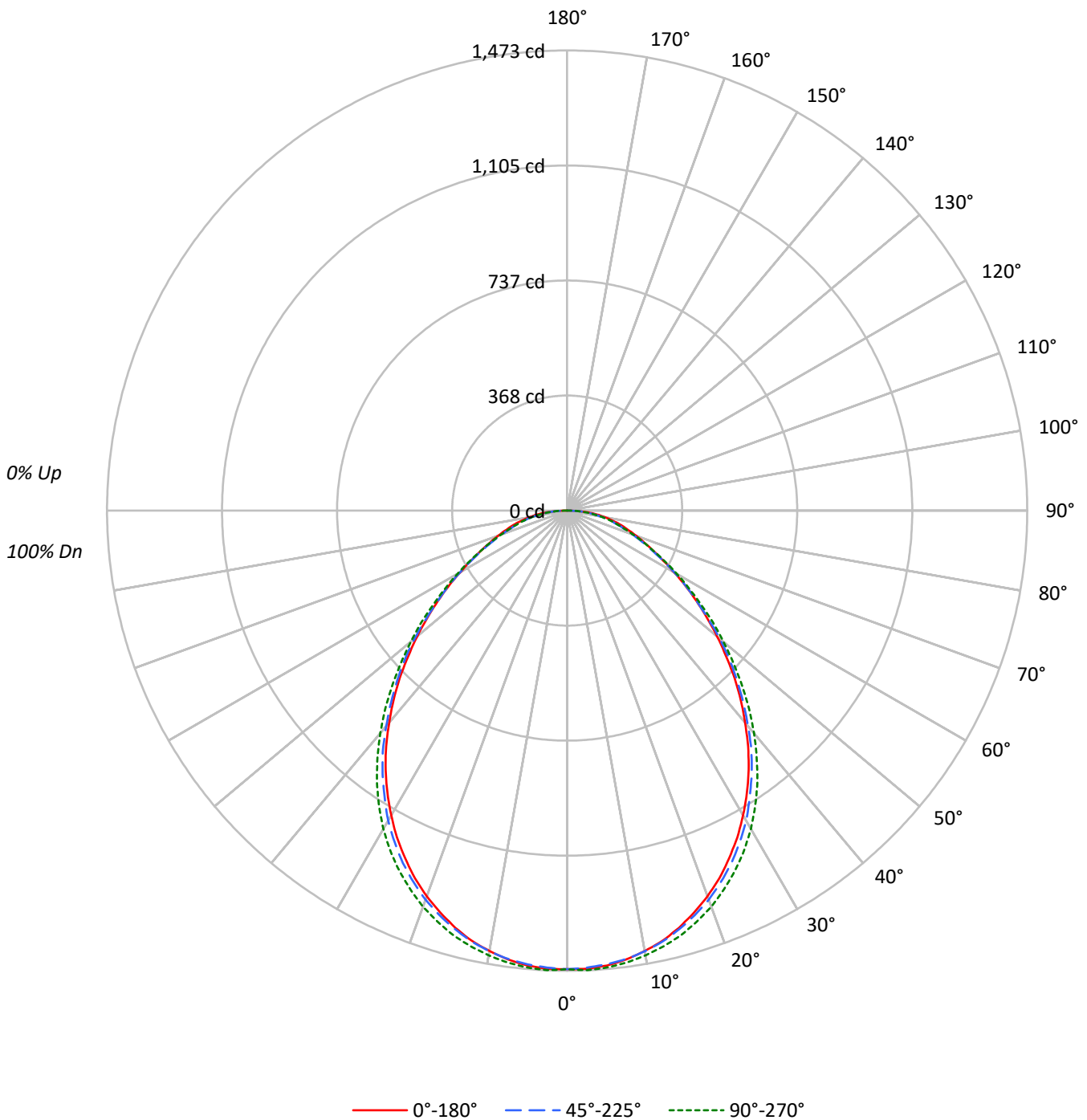
Input Watts (W): 28.737
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	97	107	103	99	96	99	96	93	95	92	90	91	89	87					85				
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75					73				
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65					62				
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56					54				
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50					48				
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44					42				
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40					38				
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36					34				
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33					31				
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30					28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3950	3950	3950
5°	3949	3938	3965
10°	3912	3914	3950
15°	3852	3865	3921
20°	3762	3795	3864
25°	3645	3695	3776
30°	3501	3561	3655
35°	3329	3382	3487
40°	3113	3164	3268
45°	2882	2926	3012
50°	2624	2667	2735
55°	2370	2377	2446
60°	2125	2134	2184
65°	1937	1897	1941
70°	1843	1740	1770
75°	1856	1678	1686
80°	1923	1695	1683
85°	2109	1797	1701



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.7	4.1
10°-20°	391.8	11.7
20°-30°	573.4	17.1
30°-40°	644.7	19.3
40°-50°	594.6	17.8
50°-60°	458.3	13.7
60°-70°	302.4	9.0
70°-80°	176.0	5.3
80°-90°	64.1	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°	1103.9	33.0
0°-40°	1748.7	52.3
0°-60°	2801.5	83.8
0°-90°	3344.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3344.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1468	1468	1468	1468	1468	
5°	1462	1459	1458	1465	1468	139
15°	1383	1383	1387	1400	1408	389
25°	1228	1234	1245	1262	1272	565
35°	1013	1018	1030	1051	1062	632
45°	757	758	769	784	791	583
55°	505	504	507	515	521	453
65°	304	303	298	300	305	305
75°	178	171	161	158	162	188
85°	68	68	58	54	55	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.0	1468.0	1468.0	1468.0	1468.0
2.5°	1468.0	1464.9	1464.2	1469.6	1472.7
5°	1461.8	1458.7	1457.9	1464.9	1468.0
7.5°	1449.4	1447.1	1447.9	1455.6	1459.5
10°	1431.6	1430.8	1432.3	1440.9	1445.5
12.5°	1410.6	1409.8	1412.9	1422.3	1428.5
15°	1382.7	1382.7	1387.3	1399.7	1407.5
17.5°	1349.3	1351.6	1358.6	1371.0	1379.6
20°	1313.6	1316.0	1325.3	1339.2	1349.3
22.5°	1274.1	1277.2	1286.5	1303.5	1312.1
25°	1227.5	1233.7	1244.6	1261.6	1271.7
27.5°	1179.4	1186.4	1196.5	1217.4	1226.7
30°	1126.6	1131.3	1146.0	1165.4	1176.3
32.5°	1070.8	1075.4	1087.8	1111.1	1120.4
35°	1013.3	1018.0	1029.6	1050.6	1061.5
37.5°	951.3	955.2	969.1	985.4	997.0
40°	886.1	891.5	900.8	920.2	930.3
42.5°	822.5	824.8	834.9	854.3	862.0
45°	757.3	758.1	768.9	784.4	791.4
47.5°	689.8	691.3	704.5	713.8	720.8
50°	626.9	627.7	637.0	645.6	653.3
52.5°	564.1	564.1	568.7	578.1	588.1
55°	505.1	504.3	506.7	515.2	521.4
57.5°	449.3	448.5	451.6	457.0	461.7
60°	394.9	393.4	396.5	399.6	405.8
62.5°	346.8	348.4	344.5	349.2	353.8
65°	304.2	302.6	298.0	300.3	304.9
67.5°	267.7	265.4	257.6	259.2	264.6
70°	234.3	229.7	221.1	221.1	225.0
72.5°	204.1	199.4	188.5	189.3	190.9
75°	178.5	170.7	161.4	158.3	162.2
77.5°	150.5	144.3	135.8	133.5	135.0
80°	124.1	119.5	109.4	106.3	108.6
82.5°	98.5	94.7	83.0	80.7	81.5
85°	68.3	67.5	58.2	53.5	55.1
87.5°	36.5	37.2	30.3	27.2	28.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)