

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: P292000

Luminaire Tested: **22GR-LD5-36-F125-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292000
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-L82765-W2A1-U-2700K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3320.0 lumens
Efficiency: N/A
Efficacy: 118.2 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

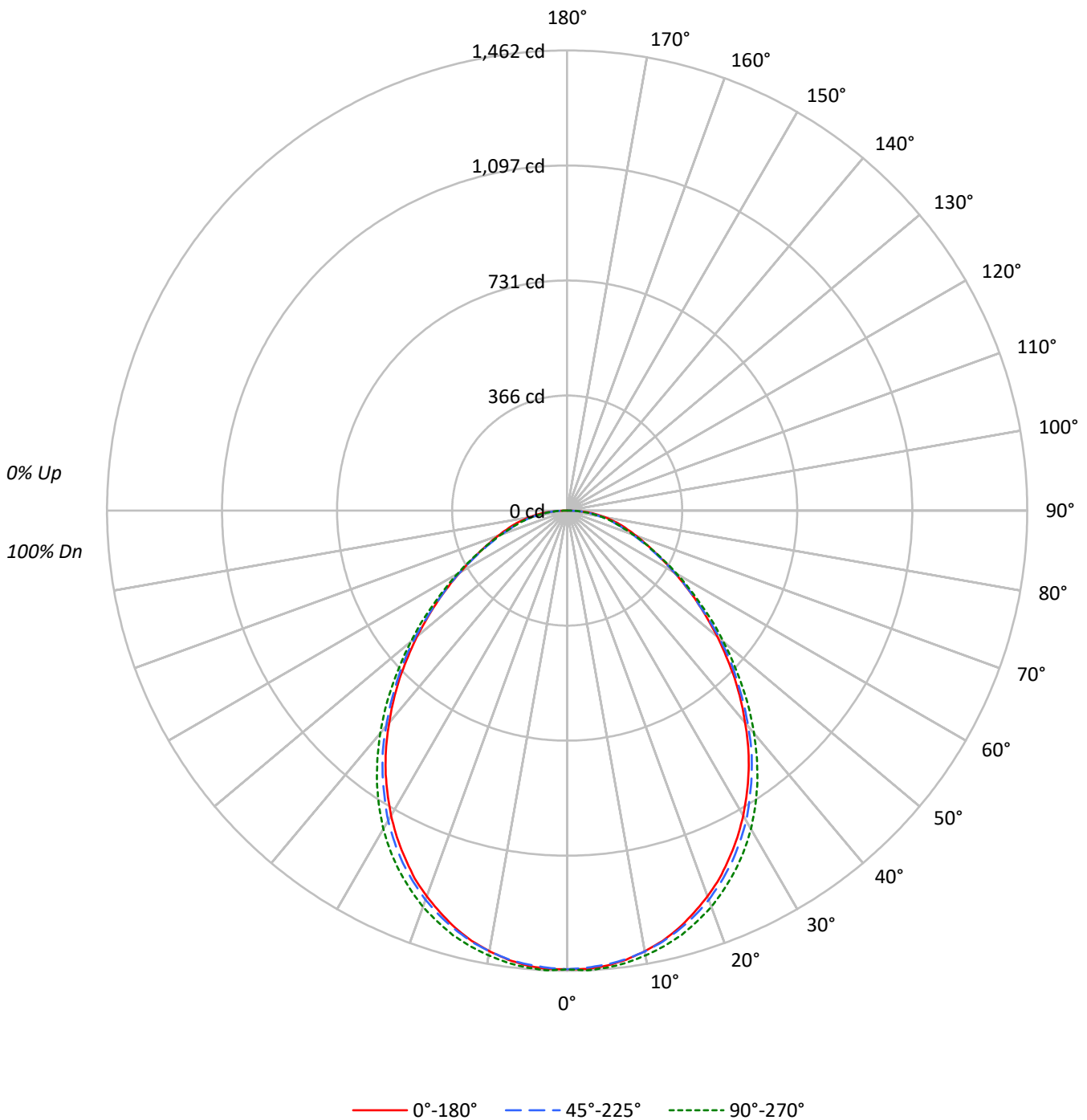
Input Watts (W): 28.086
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3922	3922	3922
5°	3920	3910	3937
10°	3884	3886	3922
15°	3824	3837	3893
20°	3735	3768	3836
25°	3619	3669	3749
30°	3475	3535	3629
35°	3305	3358	3462
40°	3090	3142	3244
45°	2861	2905	2990
50°	2606	2648	2715
55°	2353	2360	2429
60°	2110	2118	2168
65°	1923	1883	1927
70°	1830	1727	1758
75°	1842	1666	1674
80°	1911	1683	1671
85°	2093	1785	1689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	4.1
10°-20°	389.0	11.7
20°-30°	569.3	17.1
30°-40°	640.1	19.3
40°-50°	590.3	17.8
50°-60°	455.0	13.7
60°-70°	300.2	9.0
70°-80°	174.7	5.3
80°-90°	63.7	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°	1096.0	33.0
0°-40°	1736.1	52.3
0°-60°	2781.4	83.8
0°-90°	3320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1451	1448	1448	1454	1458	138
15°	1373	1373	1377	1390	1397	386
25°	1219	1225	1236	1253	1263	561
35°	1006	1011	1022	1043	1054	627
45°	752	753	763	779	786	579
55°	502	501	503	512	518	450
65°	302	300	296	298	303	303
75°	177	170	160	157	161	187
85°	68	67	58	53	55	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.5	1457.5	1457.5	1457.5	1457.5
2.5°	1457.5	1454.4	1453.6	1459.0	1462.1
5°	1451.3	1448.2	1447.5	1454.4	1457.5
7.5°	1439.0	1436.7	1437.5	1445.2	1449.0
10°	1421.3	1420.5	1422.1	1430.5	1435.2
12.5°	1400.5	1399.7	1402.8	1412.0	1418.2
15°	1372.8	1372.8	1377.4	1389.7	1397.4
17.5°	1339.6	1341.9	1348.9	1361.2	1369.7
20°	1304.2	1306.5	1315.8	1329.6	1339.6
22.5°	1264.9	1268.0	1277.2	1294.2	1302.7
25°	1218.7	1224.8	1235.6	1252.6	1262.6
27.5°	1170.9	1177.9	1187.9	1208.7	1217.9
30°	1118.5	1123.2	1137.8	1157.1	1167.8
32.5°	1063.1	1067.7	1080.0	1103.1	1112.4
35°	1006.1	1010.7	1022.2	1043.0	1053.8
37.5°	944.4	948.3	962.2	978.3	989.9
40°	879.7	885.1	894.4	913.6	923.6
42.5°	816.6	818.9	828.9	848.2	855.9
45°	751.9	752.6	763.4	778.8	785.8
47.5°	684.8	686.4	699.5	708.7	715.7
50°	622.4	623.2	632.5	640.9	648.6
52.5°	560.0	560.0	564.7	573.9	583.9
55°	501.5	500.7	503.0	511.5	517.7
57.5°	446.0	445.3	448.3	453.7	458.4
60°	392.1	390.6	393.6	396.7	402.9
62.5°	344.3	345.9	342.0	346.7	351.3
65°	302.0	300.4	295.8	298.1	302.7
67.5°	265.8	263.5	255.8	257.3	262.7
70°	232.6	228.0	219.5	219.5	223.4
72.5°	202.6	198.0	187.2	188.0	189.5
75°	177.2	169.5	160.2	157.2	161.0
77.5°	149.4	143.3	134.8	132.5	134.0
80°	123.3	118.6	108.6	105.5	107.8
82.5°	97.8	94.0	82.4	80.1	80.9
85°	67.8	67.0	57.8	53.2	54.7
87.5°	36.2	37.0	30.0	27.0	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)