

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: P292049

Luminaire Tested: **22GR-LD5-36-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292049
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-L93050-W2A1-U-4000K
Description: GRLED 2x2 TUNABLE WHITE TROFFER
WITH F125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3321.0 lumens
Efficiency: N/A
Efficacy: 115.2 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

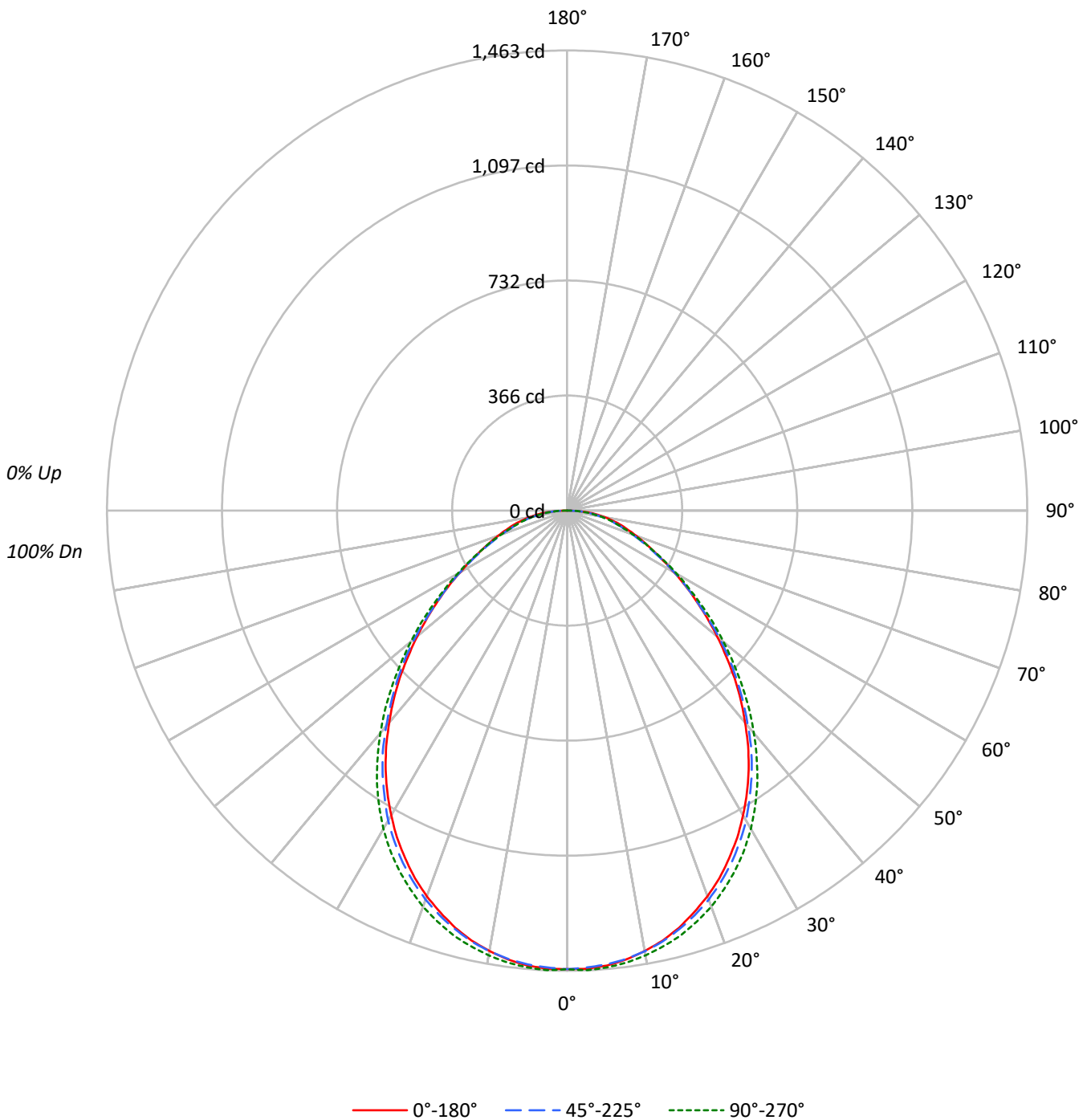
Input Watts (W): 28.83
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3923	3923	3923
5°	3922	3911	3938
10°	3885	3887	3923
15°	3826	3838	3894
20°	3736	3769	3837
25°	3620	3670	3750
30°	3477	3536	3630
35°	3306	3359	3463
40°	3091	3143	3245
45°	2862	2906	2991
50°	2606	2648	2716
55°	2353	2361	2429
60°	2111	2119	2169
65°	1924	1884	1928
70°	1831	1728	1758
75°	1842	1667	1675
80°	1911	1684	1672
85°	2093	1785	1689



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.7	4.1
10°-20°	389.1	11.7
20°-30°	569.5	17.1
30°-40°	640.3	19.3
40°-50°	590.5	17.8
50°-60°	455.1	13.7
60°-70°	300.3	9.0
70°-80°	174.8	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°	1096.3	33.0
0°-40°	1736.6	52.3
0°-60°	2782.2	83.8
0°-90°	3321.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3321.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1452	1449	1448	1455	1458	138
15°	1373	1373	1378	1390	1398	386
25°	1219	1225	1236	1253	1263	561
35°	1006	1011	1023	1043	1054	627
45°	752	753	764	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°	1457.9	1457.9	1457.9	1457.9	1457.9
2.5°	1457.9	1454.9	1454.1	1459.5	1462.6
5°	1451.8	1448.7	1447.9	1454.9	1457.9
7.5°	1439.4	1437.1	1437.9	1445.6	1449.5
10°	1421.7	1420.9	1422.5	1431.0	1435.6
12.5°	1400.9	1400.1	1403.2	1412.5	1418.6
15°	1373.2	1373.2	1377.8	1390.1	1397.8
17.5°	1340.0	1342.3	1349.3	1361.6	1370.1
20°	1304.6	1306.9	1316.1	1330.0	1340.0
22.5°	1265.3	1268.4	1277.6	1294.6	1303.0
25°	1219.1	1225.2	1236.0	1253.0	1263.0
27.5°	1171.3	1178.2	1188.2	1209.0	1218.3
30°	1118.9	1123.5	1138.1	1157.4	1168.2
32.5°	1063.4	1068.0	1080.3	1103.5	1112.7
35°	1006.4	1011.0	1022.6	1043.4	1054.2
37.5°	944.7	948.6	962.5	978.6	990.2
40°	880.0	885.4	894.6	913.9	923.9
42.5°	816.8	819.1	829.1	848.4	856.1
45°	752.1	752.9	763.6	779.1	786.0
47.5°	685.0	686.6	699.7	708.9	715.9
50°	622.6	623.4	632.6	641.1	648.8
52.5°	560.2	560.2	564.8	574.1	584.1
55°	501.6	500.9	503.2	511.7	517.8
57.5°	446.2	445.4	448.5	453.9	458.5
60°	392.2	390.7	393.8	396.8	403.0
62.5°	344.4	346.0	342.1	346.8	351.4
65°	302.1	300.5	295.9	298.2	302.8
67.5°	265.8	263.5	255.8	257.4	262.8
70°	232.7	228.1	219.6	219.6	223.5
72.5°	202.7	198.0	187.3	188.0	189.6
75°	177.2	169.5	160.3	157.2	161.1
77.5°	149.5	143.3	134.9	132.5	134.1
80°	123.3	118.7	108.7	105.6	107.9
82.5°	97.9	94.0	82.5	80.1	80.9
85°	67.8	67.0	57.8	53.2	54.7
87.5°	36.2	37.0	30.1	27.0	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)