

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: P292054

Luminaire Tested: **22GR-LD5-40-F125-UNV-L93050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P292054
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-LD5-40-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: 3744.0 lumens
Efficiency: N/A
Efficacy: 112.8 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

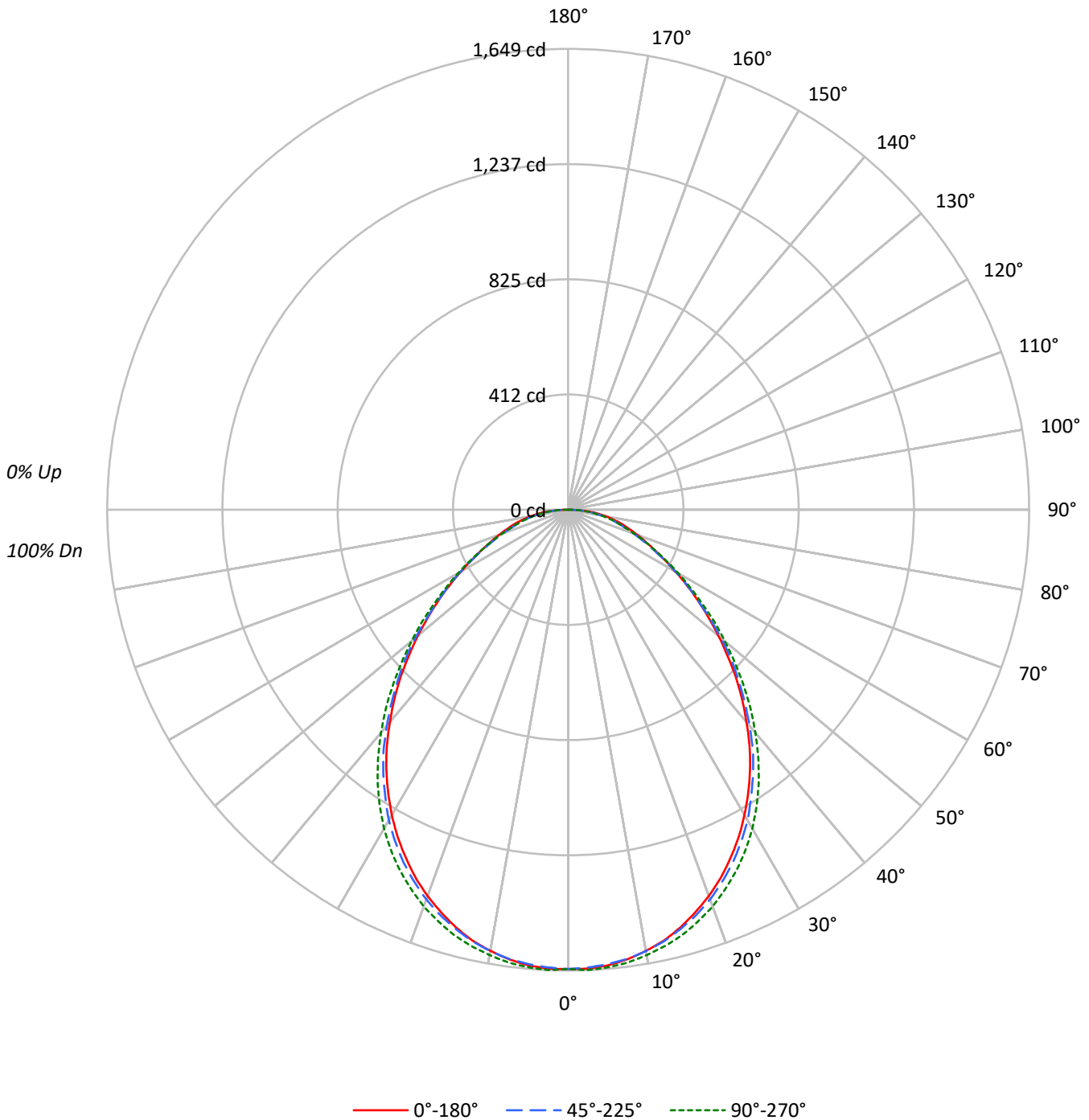
Input Watts (W): 33.201
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4423	4423	4423
5°	4421	4409	4440
10°	4380	4382	4422
15°	4313	4327	4390
20°	4212	4249	4326
25°	4081	4137	4227
30°	3920	3987	4092
35°	3727	3787	3904
40°	3485	3543	3659
45°	3227	3276	3372
50°	2938	2986	3062
55°	2653	2662	2739
60°	2380	2389	2445
65°	2168	2124	2174
70°	2065	1948	1982
75°	2077	1879	1888
80°	2154	1898	1884
85°	2359	2013	1905



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.3	4.1
10°-20°	438.7	11.7
20°-30°	642.0	17.1
30°-40°	721.9	19.3
40°-50°	665.7	17.8
50°-60°	513.1	13.7
60°-70°	338.6	9.0
70°-80°	197.1	5.3
80°-90°	71.8	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°	1236.0	33.0
0°-40°	1957.8	52.3
0°-60°	3136.6	83.8
0°-90°	3744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1644	1644	1644	1644	1644	
5°	1637	1633	1632	1640	1644	155
15°	1548	1548	1553	1567	1576	436
25°	1374	1381	1393	1413	1424	632
35°	1135	1140	1153	1176	1188	707
45°	848	849	861	878	886	653
55°	566	565	567	577	584	507
65°	340	339	334	336	341	342
75°	200	191	181	177	182	210
85°	76	76	65	60	62	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1643.6	1640.2	1639.3	1645.4	1648.8
5°	1636.7	1633.2	1632.3	1640.2	1643.6
7.5°	1622.8	1620.2	1621.0	1629.7	1634.1
10°	1602.8	1601.9	1603.7	1613.2	1618.4
12.5°	1579.3	1578.5	1582.0	1592.4	1599.3
15°	1548.1	1548.1	1553.3	1567.2	1575.9
17.5°	1510.7	1513.3	1521.1	1535.0	1544.6
20°	1470.8	1473.4	1483.8	1499.4	1510.7
22.5°	1426.4	1429.9	1440.3	1459.5	1469.0
25°	1374.3	1381.3	1393.4	1412.6	1423.8
27.5°	1320.5	1328.3	1339.6	1363.0	1373.5
30°	1261.4	1266.6	1283.1	1304.8	1317.0
32.5°	1198.8	1204.1	1218.0	1244.0	1254.4
35°	1134.6	1139.8	1152.8	1176.3	1188.4
37.5°	1065.1	1069.4	1085.0	1103.3	1116.3
40°	992.1	998.2	1008.6	1030.3	1041.6
42.5°	920.9	923.5	934.8	956.5	965.2
45°	847.9	848.7	860.9	878.3	886.1
47.5°	772.3	774.0	788.8	799.2	807.0
50°	701.9	702.8	713.2	722.8	731.5
52.5°	631.6	631.6	636.8	647.2	658.5
55°	565.5	564.7	567.3	576.8	583.8
57.5°	503.0	502.1	505.6	511.7	516.9
60°	442.2	440.4	443.9	447.4	454.3
62.5°	388.3	390.1	385.7	390.9	396.1
65°	340.5	338.8	333.6	336.2	341.4
67.5°	299.7	297.1	288.4	290.2	296.2
70°	262.4	257.1	247.6	247.6	251.9
72.5°	228.5	223.3	211.1	212.0	213.7
75°	199.8	191.1	180.7	177.2	181.6
77.5°	168.5	161.6	152.0	149.4	151.2
80°	139.0	133.8	122.5	119.0	121.6
82.5°	110.3	106.0	93.0	90.3	91.2
85°	76.4	75.6	65.2	59.9	61.7
87.5°	40.8	41.7	33.9	30.4	32.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)