

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798217

Luminaire Tested: 22GRSCT3-F125-UNV-HIGH-3500K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291964)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-F125-UNV-HIGH-3500K
Description: GRLED Selectable
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

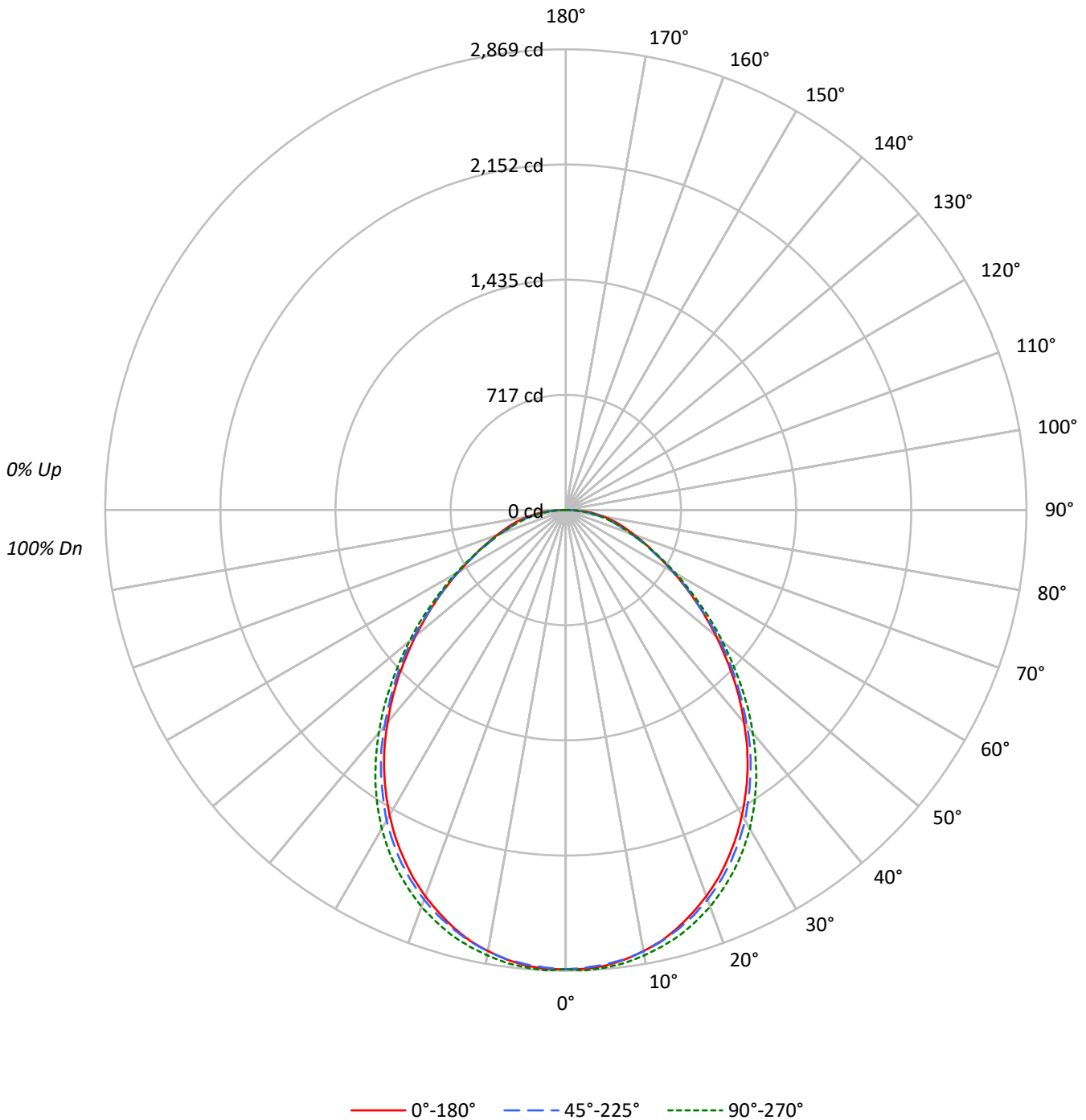
Lumens per Lamp: N/A
Luminaire Lumens: 6515.0 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.24
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
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: 24 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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	110	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85	85	85	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73	73	73	73
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62	62	62	62
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	60	56	54	54	54	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	50	48	48	48	48
6	73	60	52	45	71	59	51	45	57	50	45	56	49	45	54	49	44	42	42	42	42
7	68	55	46	41	66	54	46	40	53	45	40	51	45	40	50	44	40	38	38	38	38
8	63	50	42	36	62	50	42	36	48	41	36	47	41	36	46	40	36	34	34	34	34
9	59	46	38	33	58	46	38	33	45	38	33	44	37	33	43	37	33	31	31	31	31
10	56	43	35	30	54	42	35	30	41	35	30	40	34	30	40	34	30	28	28	28	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7696	7696	7696
5°	7693	7673	7726
10°	7621	7626	7696
15°	7504	7530	7640
20°	7329	7394	7528
25°	7101	7199	7356
30°	6820	6938	7121
35°	6486	6590	6793
40°	6065	6165	6367
45°	5615	5701	5868
50°	5113	5196	5329
55°	4617	4631	4766
60°	4140	4157	4254
65°	3772	3696	3783
70°	3592	3390	3449
75°	3614	3270	3283
80°	3746	3302	3281
85°	4113	3501	3310

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5868 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.2	4.1
10°-20°	763.3	11.7
20°-30°	1117.2	17.1
30°-40°	1256.1	19.3
40°-50°	1158.4	17.8
50°-60°	892.8	13.7
60°-70°	589.1	9.0
70°-80°	342.9	5.3
80°-90°	124.9	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°	2150.7	33.0
0°-40°	3406.8	52.3
0°-60°	5458.1	83.8
0°-90°	6515.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6515.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2860	2860	2860	2860	2860	
5°	2848	2842	2840	2854	2860	270
15°	2694	2694	2703	2727	2742	758
25°	2392	2404	2425	2458	2478	1100
35°	1974	1983	2006	2047	2068	1231
45°	1475	1477	1498	1528	1542	1136
55°	984	983	987	1004	1016	883
65°	592	590	580	585	594	594
75°	348	333	314	308	316	366
85°	133	132	113	104	107	141
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2860.0	2860.0	2860.0	2860.0	2860.0
2.5°	2860.0	2853.9	2852.5	2863.1	2869.2
5°	2848.1	2841.9	2840.5	2853.9	2860.0
7.5°	2823.8	2819.4	2820.7	2835.8	2843.6
10°	2789.0	2787.6	2790.7	2807.1	2816.3
12.5°	2748.4	2746.6	2752.8	2770.9	2782.8
15°	2693.7	2693.7	2702.9	2727.2	2742.2
17.5°	2628.8	2633.3	2646.9	2671.2	2687.9
20°	2559.2	2563.6	2582.1	2609.0	2628.8
22.5°	2482.0	2488.2	2506.3	2539.7	2556.1
25°	2391.5	2403.5	2424.7	2458.1	2477.6
27.5°	2297.6	2311.3	2331.1	2371.7	2389.8
30°	2194.9	2204.1	2232.8	2270.7	2291.8
32.5°	2085.9	2095.2	2119.4	2164.8	2182.9
35°	1974.3	1983.2	2006.0	2046.7	2067.8
37.5°	1853.4	1860.9	1888.2	1920.0	1942.5
40°	1726.4	1737.0	1755.1	1793.0	1812.4
42.5°	1602.4	1606.9	1626.7	1664.2	1679.6
45°	1475.4	1476.8	1498.0	1528.3	1542.0
47.5°	1344.0	1347.0	1372.6	1390.7	1404.4
50°	1221.4	1223.1	1241.2	1257.6	1272.9
52.5°	1099.1	1099.1	1108.0	1126.1	1145.9
55°	984.1	982.7	987.1	1003.9	1015.8
57.5°	875.1	873.8	879.9	890.5	899.4
60°	769.3	766.6	772.4	778.5	790.5
62.5°	675.7	678.8	671.3	680.2	689.4
65°	592.4	589.7	580.5	584.9	594.1
67.5°	521.4	517.0	501.9	505.0	515.6
70°	456.5	447.3	430.9	430.9	438.4
72.5°	397.5	388.6	367.4	368.8	371.8
75°	347.6	332.6	314.5	308.3	315.8
77.5°	293.3	281.0	264.6	259.8	262.9
80°	241.7	232.9	213.1	207.3	211.7
82.5°	191.9	184.4	161.8	157.1	158.8
85°	133.2	131.5	113.4	104.1	107.2
87.5°	71.0	72.7	59.1	52.9	56.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)