

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: P798258

Luminaire Tested: 24GRSCT3-A125-UNV-MID-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293710)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-A125-UNV-MID-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

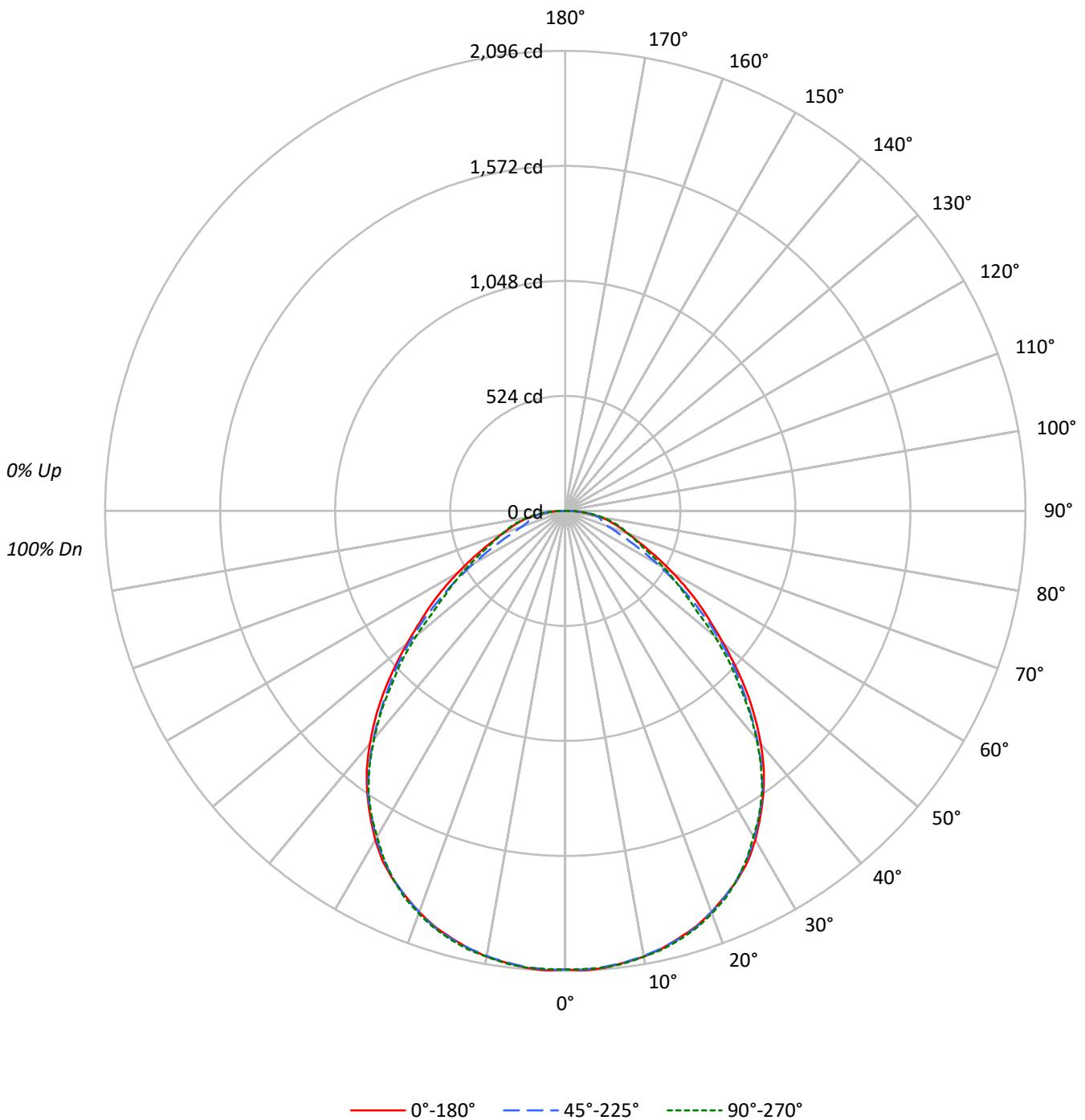
Lumens per Lamp: N/A
Luminaire Lumens: 4782.2 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.27
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 34.4
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	102	102	102	100
1	110	105	101	98	107	103	100	96	99	96	93	95	93	90	91	90	88	88	88	88	86
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	76	76	76	74
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	73	69	66	66	66	66	64
4	86	75	66	60	83	73	66	60	71	64	59	68	63	58	66	61	57	57	57	57	55
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51	51	51	51	49
6	73	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45	45	45	45	43
7	68	56	47	42	67	55	47	41	53	46	41	52	46	41	51	45	41	41	41	41	39
8	64	51	43	37	62	50	43	37	49	42	37	48	41	37	47	41	37	37	37	37	35
9	60	47	39	34	58	46	39	34	45	38	34	44	38	33	43	38	33	33	33	33	32
10	56	44	36	31	55	43	36	31	42	35	31	41	35	31	40	35	30	30	30	30	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2812	2812	2812
5°	2821	2815	2820
10°	2817	2813	2818
15°	2804	2809	2816
20°	2785	2785	2795
25°	2753	2748	2750
30°	2689	2675	2662
35°	2583	2576	2566
40°	2433	2389	2378
45°	2226	2165	2125
50°	1968	1928	1854
55°	1750	1631	1568
60°	1524	1305	1399
65°	1316	1012	1237
70°	1201	828	1197
75°	1210	892	1272
80°	1260	1162	1341
85°	1312	1383	1487

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2226 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	4.1
10°-20°	568.5	11.9
20°-30°	851.0	17.8
30°-40°	972.4	20.3
40°-50°	879.1	18.4
50°-60°	632.5	13.2
60°-70°	366.7	7.7
70°-80°	217.5	4.5
80°-90°	96.3	2.0
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°	1617.7	33.8
0°-40°	2590.1	54.2
0°-60°	4101.7	85.8
0°-90°	4782.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4782.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2089	2086	2084	2082	2088	198
15°	2013	2016	2016	2014	2022	568
25°	1855	1852	1851	1847	1852	853
35°	1573	1565	1568	1549	1562	980
45°	1170	1150	1138	1127	1117	899
55°	746	732	695	677	668	667
65°	413	367	318	355	389	417
75°	233	195	172	212	245	246
85°	85	92	90	103	96	91
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2089.7	2089.7	2089.7	2089.7	2089.7
2.5°	2095.7	2088.2	2091.9	2089.7	2088.8
5°	2088.8	2085.9	2084.4	2081.5	2088.2
7.5°	2075.5	2073.3	2074.0	2074.7	2079.3
10°	2062.0	2058.3	2059.1	2060.5	2062.7
12.5°	2041.2	2039.0	2039.7	2041.2	2046.3
15°	2012.9	2016.5	2016.5	2014.3	2021.8
17.5°	1984.4	1983.7	1987.5	1980.8	1991.2
20°	1945.0	1945.6	1945.0	1945.6	1952.3
22.5°	1900.1	1903.8	1901.6	1901.6	1909.1
25°	1854.7	1852.5	1850.9	1847.2	1852.5
27.5°	1800.2	1795.8	1792.0	1784.5	1788.3
30°	1730.8	1731.6	1721.9	1715.1	1713.7
32.5°	1653.3	1653.3	1644.2	1639.1	1643.6
35°	1572.7	1565.2	1568.1	1548.8	1562.1
37.5°	1485.3	1473.4	1466.7	1459.9	1464.5
40°	1385.3	1369.8	1360.1	1346.6	1354.1
42.5°	1280.2	1260.7	1248.8	1239.2	1242.1
45°	1169.8	1149.6	1137.7	1127.3	1116.9
47.5°	1053.4	1040.8	1034.8	1021.3	1009.3
50°	940.1	935.6	921.3	910.2	885.6
52.5°	836.3	832.5	810.2	791.6	760.2
55°	746.0	731.8	695.3	677.4	668.5
57.5°	654.4	631.1	587.1	584.9	590.9
60°	566.3	538.0	484.9	496.8	520.0
62.5°	486.4	443.9	393.2	421.6	449.0
65°	413.4	367.1	317.8	355.2	388.6
67.5°	352.9	306.7	255.8	305.8	344.8
70°	305.2	258.1	210.4	267.8	304.3
72.5°	265.6	223.1	183.5	237.9	276.0
75°	232.8	194.7	171.5	211.8	244.7
77.5°	199.9	169.3	164.2	188.8	208.9
80°	162.6	148.5	150.0	165.6	173.1
82.5°	121.7	122.4	126.1	138.8	135.9
85°	85.0	91.8	89.6	102.9	96.3
87.5°	46.9	51.5	48.5	58.9	52.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)