

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: P798243

Luminaire Tested: 24GRSCT3-A19 156-UNV-HIGH-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798243
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P293962)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 24GRSCT3-A19 156-UNV-HIGH-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

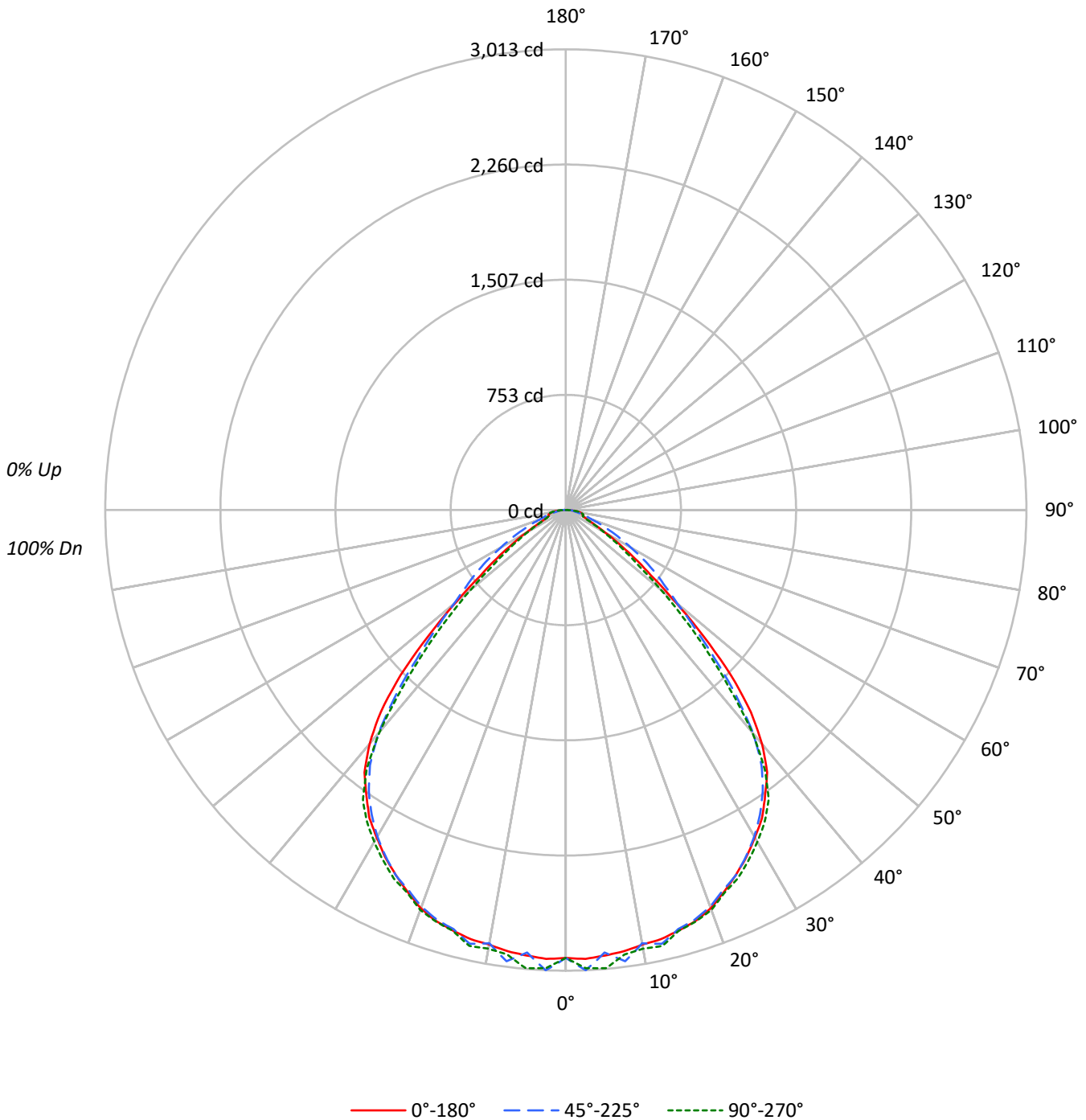
Lumens per Lamp: N/A
Luminaire Lumens: 5924.0 lumens
Efficiency: N/A
Efficacy: 130.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 45.5
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	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	90	90	90	88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	79	79	79	77
3	95	86	79	74	93	85	78	73	82	77	72	79	75	71	77	73	70	70	70	70	68
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	62	62	62	60
5	82	71	63	57	80	70	62	57	68	61	56	66	60	56	64	59	55	55	55	55	53
6	76	65	57	51	75	64	56	51	62	55	50	60	55	50	59	54	50	50	50	50	48
7	71	59	51	46	70	58	51	46	57	50	45	56	50	45	54	49	45	45	45	45	43
8	67	55	47	42	65	54	47	41	53	46	41	51	45	41	50	45	41	41	41	41	39
9	63	50	43	38	61	50	43	38	49	42	38	48	42	37	47	41	37	37	37	37	36
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	34	34	34	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3941	3941	3941
5°	3950	3924	4063
10°	3944	3932	3980
15°	3966	3953	3969
20°	3969	3953	3986
25°	3908	3911	3949
30°	3843	3831	3893
35°	3735	3689	3800
40°	3508	3350	3332
45°	2907	2630	2495
50°	1956	1995	1705
55°	1290	1674	1118
60°	827	1321	765
65°	533	1009	518
70°	472	723	472
75°	609	573	613
80°	745	494	781
85°	866	736	911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2909 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.5	4.7
10°-20°	805.3	13.6
20°-30°	1212.4	20.5
30°-40°	1405.2	23.7
40°-50°	1097.7	18.5
50°-60°	586.1	9.9
60°-70°	301.4	5.1
70°-80°	170.5	2.9
80°-90°	64.8	1.1
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°	2298.1	38.8
0°-40°	3703.4	62.5
0°-60°	5387.2	90.9
0°-90°	5924.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5924.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2929	2929	2929	2929	2929	
5°	2924	3006	2905	2985	3008	278
15°	2848	2866	2838	2856	2849	804
25°	2632	2624	2634	2630	2660	1213
35°	2274	2263	2246	2291	2314	1418
45°	1528	1529	1382	1370	1311	1151
55°	550	695	714	643	477	507
65°	167	349	317	348	163	184
75°	117	220	110	205	118	119
85°	56	73	48	73	59	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2929.3	2929.3	2929.3	2929.3	2929.3
2.5°	2938.7	2992.0	3012.9	2987.2	2998.7
5°	2924.5	3006.3	2905.4	2985.2	3008.1
7.5°	2911.0	2902.5	2975.9	2899.7	2932.1
10°	2886.4	2892.1	2877.7	2932.1	2913.0
12.5°	2874.9	2908.2	2905.4	2877.7	2919.7
15°	2847.5	2865.5	2837.9	2856.0	2849.2
17.5°	2819.8	2811.1	2808.3	2815.9	2822.7
20°	2772.2	2743.7	2760.9	2762.8	2783.7
22.5°	2703.6	2686.6	2690.3	2707.5	2709.5
25°	2632.5	2623.7	2634.2	2630.5	2659.9
27.5°	2558.2	2546.7	2553.5	2567.6	2585.7
30°	2473.6	2470.5	2466.0	2478.2	2505.8
32.5°	2389.8	2366.9	2363.2	2388.9	2420.3
35°	2273.8	2263.4	2246.2	2290.8	2313.6
37.5°	2163.5	2131.0	2103.4	2130.2	2139.5
40°	1997.0	1972.2	1907.5	1910.4	1897.1
42.5°	1792.4	1774.3	1650.5	1628.7	1591.5
45°	1527.8	1528.9	1382.4	1370.0	1311.0
47.5°	1220.5	1274.9	1147.3	1133.0	1045.5
50°	934.3	1032.2	953.2	930.4	814.4
52.5°	701.2	844.8	820.0	770.6	610.7
55°	550.0	695.3	713.6	643.1	476.6
57.5°	413.9	572.8	602.2	544.1	368.2
60°	307.3	482.3	491.0	468.1	284.4
62.5°	228.3	410.0	398.7	401.5	211.1
65°	167.4	349.1	316.9	348.2	162.8
67.5°	136.9	302.5	246.4	301.6	132.3
70°	119.9	268.3	183.7	265.5	119.9
72.5°	116.0	246.4	145.6	235.9	117.1
75°	117.1	219.8	110.3	205.4	118.0
77.5°	107.5	180.9	83.8	175.0	112.3
80°	96.2	136.9	63.8	138.8	100.8
82.5°	81.8	99.9	51.4	102.7	84.7
85°	56.1	73.3	47.7	73.3	59.0
87.5°	26.6	43.7	29.6	41.8	30.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)