

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: P798135

Luminaire Tested: 14GRSCT3-A19 156-UNV-HIGH-3000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291376)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-A19 156-UNV-HIGH-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

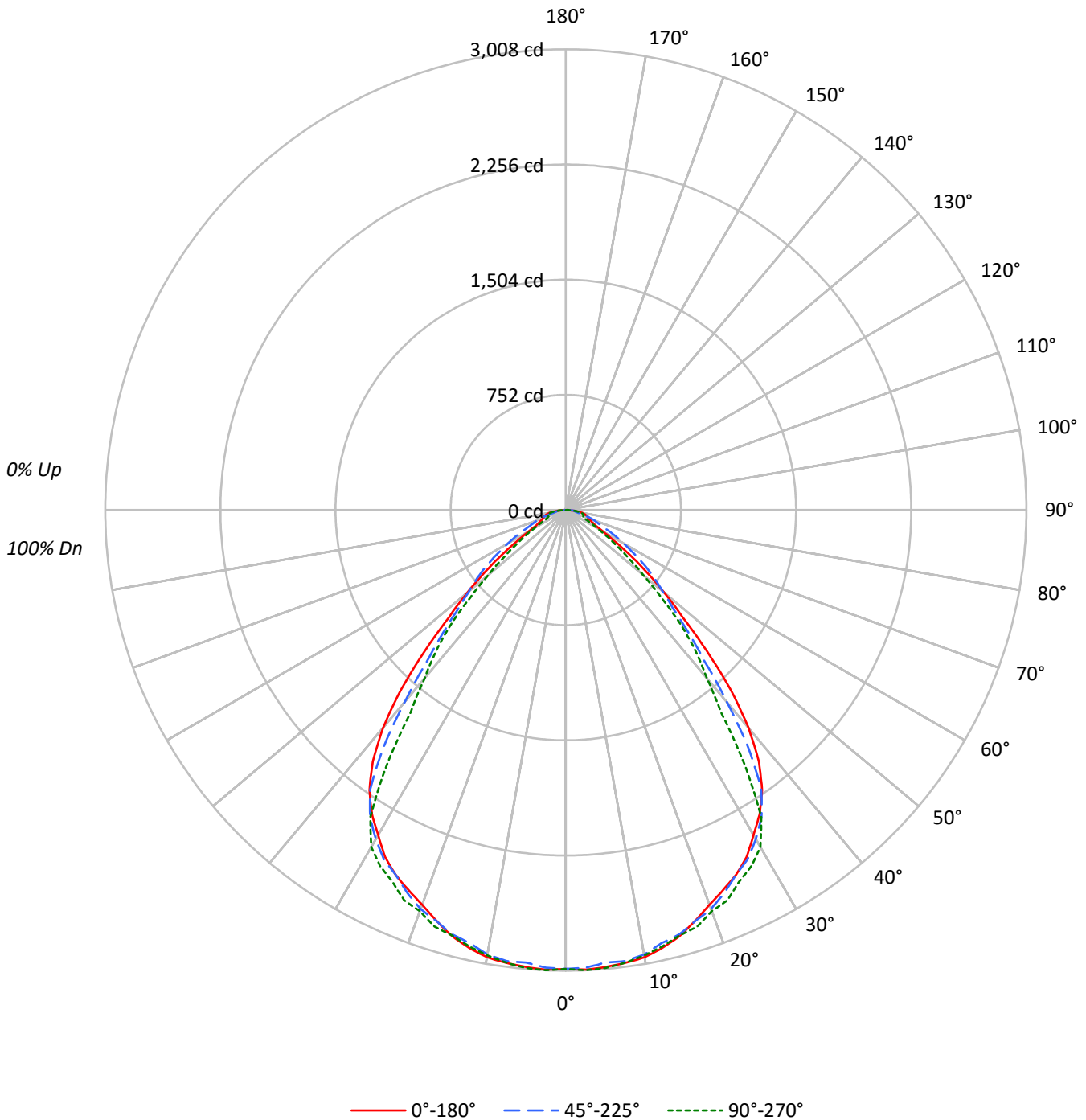
Lumens per Lamp: N/A
Luminaire Lumens: 5634.7 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.23 / 1.18
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 53.2
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				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	104	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	87	83	88	84	81	85	82	79	79	79	79	77
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	70	70	70	68
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63	71	66	63	63	63	63	61
5	83	71	64	58	81	70	63	58	68	62	57	67	61	57	65	60	56	56	56	56	54
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51	60	55	51	51	51	51	49
7	72	60	52	47	70	59	52	47	58	51	46	56	51	46	55	50	46	46	46	46	44
8	67	55	48	43	66	55	47	42	53	47	42	52	46	42	51	46	42	42	42	42	40
9	63	51	44	39	62	51	44	39	50	43	39	49	43	38	48	42	38	38	38	38	37
10	60	48	40	36	58	47	40	36	46	40	35	45	39	35	44	39	35	35	35	35	34

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8063	8063	8063
5°	8090	8013	8108
10°	8103	8053	8067
15°	8020	7991	8009
20°	7853	7938	7982
25°	7805	7801	7950
30°	7614	7707	7895
35°	7342	7314	6721
40°	6520	5754	5038
45°	4947	4305	4074
50°	3509	3445	2764
55°	2402	2941	1901
60°	1486	2347	1270
65°	1223	1806	919
70°	1217	1574	945
75°	1462	1128	1261
80°	1681	1040	1581
85°	1590	1834	1788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 5164 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.3	5.0
10°-20°	811.4	14.4
20°-30°	1220.2	21.7
30°-40°	1330.3	23.6
40°-50°	931.5	16.5
50°-60°	527.3	9.4
60°-70°	288.5	5.1
70°-80°	174.9	3.1
80°-90°	66.3	1.2
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°	2315.9	41.1
0°-40°	3646.2	64.7
0°-60°	5105.0	90.6
0°-90°	5634.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5634.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2996	2996	2996	2996	2996	
5°	2995	2990	2966	3001	3001	285
15°	2879	2871	2868	2910	2875	810
25°	2629	2634	2627	2688	2678	1207
35°	2235	2225	2226	2113	2046	1377
45°	1300	1357	1131	1117	1070	1010
55°	512	613	627	622	405	468
65°	192	316	284	358	144	197
75°	141	202	108	213	121	146
85°	52	84	59	72	58	57
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2996.2	2996.2	2996.2	2996.2	2996.2
2.5°	3003.9	3000.2	2991.0	3009.1	3007.9
5°	2995.0	2989.8	2966.5	3001.4	3001.4
7.5°	2982.1	2969.3	2970.5	2989.8	2980.9
10°	2965.3	2943.2	2947.2	2952.4	2952.4
12.5°	2926.7	2905.8	2895.7	2912.3	2917.5
15°	2878.9	2871.2	2868.5	2909.8	2874.9
17.5°	2811.8	2828.6	2813.0	2846.7	2851.9
20°	2742.2	2774.4	2771.9	2794.9	2787.3
22.5°	2685.5	2706.1	2706.1	2734.6	2757.5
25°	2628.6	2633.8	2627.3	2688.0	2677.6
27.5°	2555.0	2551.3	2571.9	2602.8	2623.3
30°	2450.5	2452.1	2480.3	2521.6	2540.9
32.5°	2355.3	2343.6	2378.5	2396.6	2375.8
35°	2235.1	2225.0	2226.3	2112.6	2045.8
37.5°	2071.5	2080.4	1961.8	1754.1	1666.5
40°	1856.1	1874.2	1638.0	1483.3	1434.2
42.5°	1595.4	1600.6	1342.6	1292.4	1260.2
45°	1300.0	1357.0	1131.2	1117.1	1070.5
47.5°	1030.7	1136.4	948.0	957.2	846.3
50°	838.3	944.0	823.0	826.7	660.3
52.5°	663.0	766.3	726.2	714.5	518.4
55°	512.0	612.8	626.9	621.7	405.1
57.5°	376.6	485.0	526.4	545.7	312.2
60°	276.1	395.9	436.0	474.6	235.9
62.5°	219.4	343.2	357.3	413.9	183.2
65°	192.1	315.9	283.7	358.5	144.3
67.5°	171.6	300.6	231.0	317.4	126.5
70°	154.7	270.9	200.1	283.7	120.1
72.5°	154.7	237.5	157.5	251.5	121.3
75°	140.6	202.5	108.5	212.9	121.3
77.5°	125.0	172.8	81.2	172.8	113.4
80°	108.5	135.4	67.1	133.0	102.0
82.5°	80.0	102.0	57.9	99.3	82.4
85°	51.5	84.0	59.4	72.3	57.9
87.5°	24.5	42.6	37.4	36.2	29.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)