

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: P798249

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

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798249
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-MID-3000K
Description: GRLED Selectable
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

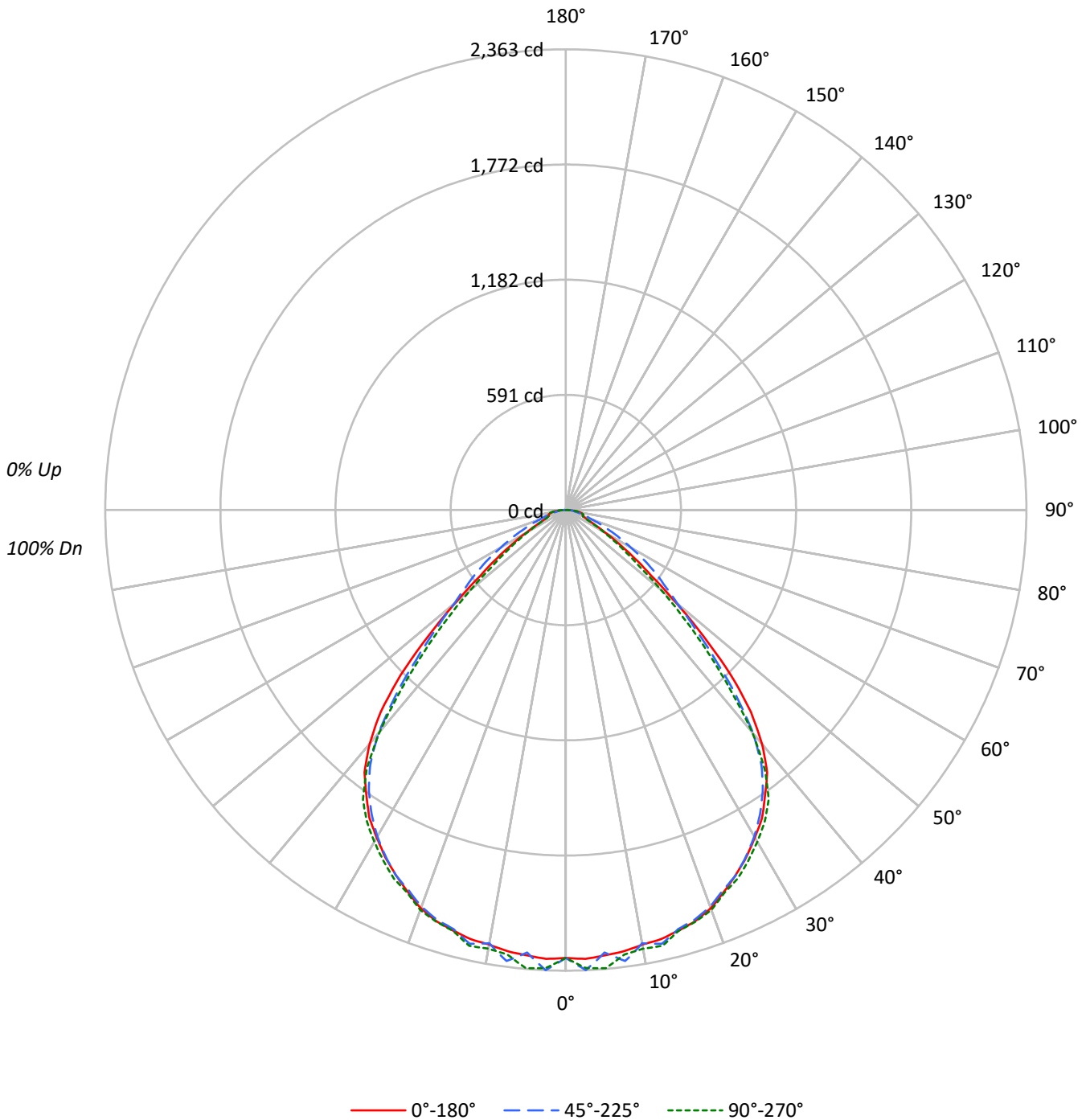
Lumens per Lamp: N/A
Luminaire Lumens: 4645.7 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.27 / 1.25
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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°	3091	3091	3091
5°	3098	3077	3186
10°	3093	3083	3121
15°	3110	3100	3112
20°	3113	3100	3126
25°	3065	3067	3097
30°	3014	3005	3053
35°	2929	2893	2980
40°	2751	2627	2613
45°	2280	2063	1956
50°	1534	1565	1337
55°	1012	1313	877
60°	649	1036	600
65°	418	791	407
70°	370	566	370
75°	477	450	481
80°	584	387	612
85°	679	577	715

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 2281 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	219.9	4.7
10°-20°	631.5	13.6
20°-30°	950.8	20.5
30°-40°	1102.0	23.7
40°-50°	860.9	18.5
50°-60°	459.7	9.9
60°-70°	236.4	5.1
70°-80°	133.7	2.9
80°-90°	50.8	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°	1802.2	38.8
0°-40°	2904.3	62.5
0°-60°	4224.8	90.9
0°-90°	4645.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4645.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2297	2297	2297	2297	2297	
5°	2294	2358	2278	2341	2359	218
15°	2233	2247	2226	2240	2234	631
25°	2064	2058	2066	2063	2086	951
35°	1783	1775	1762	1796	1814	1112
45°	1198	1199	1084	1074	1028	903
55°	431	545	560	504	374	398
65°	131	274	248	273	128	144
75°	92	172	86	161	92	93
85°	44	58	37	58	46	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2297.2	2297.2	2297.2	2297.2	2297.2
2.5°	2304.6	2346.4	2362.7	2342.6	2351.7
5°	2293.5	2357.6	2278.4	2341.1	2359.0
7.5°	2282.9	2276.2	2333.7	2274.0	2299.4
10°	2263.6	2268.0	2256.8	2299.4	2284.4
12.5°	2254.5	2280.7	2278.4	2256.8	2289.7
15°	2233.0	2247.2	2225.5	2239.7	2234.4
17.5°	2211.4	2204.5	2202.3	2208.3	2213.6
20°	2174.0	2151.6	2165.1	2166.6	2183.0
22.5°	2120.2	2106.9	2109.8	2123.3	2124.8
25°	2064.4	2057.6	2065.8	2062.9	2085.9
27.5°	2006.2	1997.2	2002.5	2013.6	2027.7
30°	1939.8	1937.4	1933.9	1943.4	1965.1
32.5°	1874.1	1856.2	1853.3	1873.4	1898.0
35°	1783.2	1775.0	1761.5	1796.5	1814.4
37.5°	1696.6	1671.2	1649.5	1670.5	1677.9
40°	1566.1	1546.6	1495.9	1498.1	1487.7
42.5°	1405.6	1391.5	1294.4	1277.3	1248.1
45°	1198.1	1199.0	1084.1	1074.4	1028.1
47.5°	957.1	999.8	899.8	888.5	819.9
50°	732.7	809.5	747.5	729.6	638.6
52.5°	549.9	662.5	643.1	604.3	478.9
55°	431.3	545.3	559.6	504.3	373.8
57.5°	324.6	449.2	472.2	426.7	288.8
60°	241.0	378.2	385.0	367.1	223.1
62.5°	179.0	321.5	312.7	314.9	165.5
65°	131.2	273.8	248.5	273.1	127.7
67.5°	107.4	237.2	193.2	236.5	103.8
70°	94.0	210.4	144.0	208.2	94.0
72.5°	91.0	193.2	114.2	185.0	91.8
75°	91.8	172.4	86.5	161.1	92.5
77.5°	84.3	141.8	65.7	137.2	88.1
80°	75.4	107.4	50.0	108.9	79.0
82.5°	64.2	78.3	40.3	80.6	66.4
85°	44.0	57.5	37.4	57.5	46.3
87.5°	20.8	34.3	23.2	32.8	23.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)