

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: P798188

Luminaire Tested: 22GRSCT3-A-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798188
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P292160)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22GRSCT3-A-UNV-MID-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

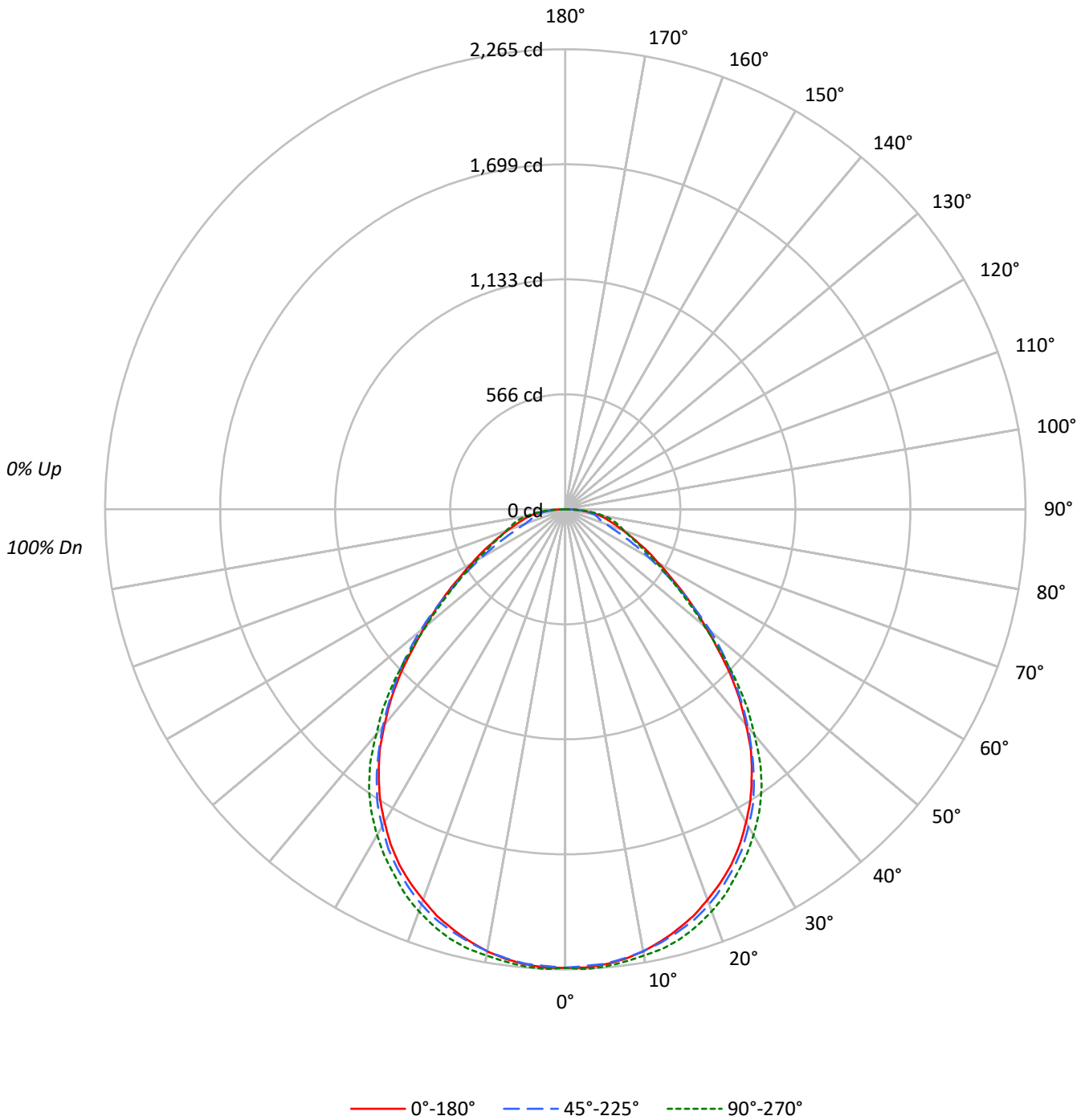
Lumens per Lamp: N/A
Luminaire Lumens: 4929.0 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.22 / 1.25
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 38
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	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	88	86
2	101	94	87	82	99	92	86	81	88	84	79	85	81	78	82	79	76	76	76	76	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	66	66	66	64
4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	58	58	58	56
5	80	68	59	53	78	67	59	53	65	58	53	63	57	52	61	56	51	51	51	51	49
6	74	62	53	47	72	61	53	47	59	52	47	57	51	46	56	50	46	46	46	46	44
7	69	56	48	42	67	55	48	42	54	47	42	53	46	42	51	46	41	41	41	41	39
8	64	52	44	38	63	51	43	38	50	43	38	48	42	38	47	42	37	37	37	37	36
9	60	48	40	35	59	47	40	35	46	39	34	45	39	34	44	38	34	34	34	34	32
10	57	44	37	32	55	44	36	32	43	36	31	42	36	31	41	35	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6074	6074	6074
5°	6076	6066	6103
10°	6040	6037	6096
15°	5963	5994	6100
20°	5860	5929	6034
25°	5735	5800	5906
30°	5528	5603	5756
35°	5256	5317	5531
40°	4859	4911	5085
45°	4365	4444	4514
50°	3774	3909	3736
55°	3293	3207	3165
60°	2852	2568	2740
65°	2550	2017	2462
70°	2365	1670	2428
75°	2360	1764	2694
80°	2614	2221	3040
85°	2729	2408	3433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4514 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.6	4.3
10°-20°	608.4	12.3
20°-30°	899.8	18.3
30°-40°	1015.4	20.6
40°-50°	895.1	18.2
50°-60°	614.0	12.5
60°-70°	362.3	7.4
70°-80°	226.1	4.6
80°-90°	94.3	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°	1721.8	34.9
0°-40°	2737.2	55.5
0°-60°	4246.3	86.1
0°-90°	4929.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4929.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2257	2257	2257	2257	2257	
5°	2249	2245	2246	2254	2260	213
15°	2140	2143	2152	2178	2190	603
25°	1931	1938	1954	1979	1989	887
35°	1600	1614	1618	1658	1684	997
45°	1147	1153	1168	1174	1186	881
55°	702	685	684	661	675	630
65°	400	352	317	366	387	403
75°	227	204	170	237	259	244
85°	88	83	78	102	111	95
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2257.2	2257.2	2257.2	2257.2	2257.2
2.5°	2258.5	2252.8	2250.5	2259.5	2265.2
5°	2249.2	2244.8	2245.8	2253.8	2259.5
7.5°	2233.4	2229.7	2229.7	2241.4	2247.1
10°	2210.3	2209.3	2209.3	2223.0	2231.0
12.5°	2178.2	2179.4	2183.9	2202.3	2216.0
15°	2140.3	2142.7	2151.7	2178.2	2189.6
17.5°	2099.1	2099.1	2117.3	2138.0	2151.7
20°	2046.2	2049.6	2070.3	2093.4	2107.1
22.5°	1992.3	1998.0	2015.4	2041.6	2054.3
25°	1931.4	1938.4	1953.5	1978.6	1989.0
27.5°	1860.4	1869.5	1885.6	1904.0	1925.7
30°	1779.1	1792.8	1803.2	1828.3	1852.4
32.5°	1696.4	1709.1	1720.5	1746.9	1774.4
35°	1600.0	1613.7	1618.4	1657.5	1683.7
37.5°	1501.5	1507.2	1509.5	1548.4	1577.2
40°	1383.3	1394.7	1398.1	1429.2	1447.6
42.5°	1269.8	1274.2	1281.2	1304.0	1326.1
45°	1147.0	1152.7	1167.7	1174.5	1186.1
47.5°	1018.5	1035.8	1052.9	1031.2	1032.2
50°	901.6	915.3	933.7	892.3	892.3
52.5°	797.1	804.1	805.2	770.7	777.7
55°	702.0	684.7	683.6	660.6	674.6
57.5°	606.7	583.9	575.8	568.8	584.9
60°	530.0	488.5	477.1	487.5	509.2
62.5°	466.7	414.1	392.4	418.8	438.2
65°	400.4	352.2	316.7	365.9	386.7
67.5°	348.8	302.7	256.8	326.8	341.8
70°	300.6	264.9	212.2	297.0	308.6
72.5°	261.5	234.0	183.5	268.5	282.2
75°	227.0	204.2	169.7	237.4	259.1
77.5°	199.5	174.4	158.3	205.2	231.7
80°	168.7	143.3	143.3	172.1	196.2
82.5°	132.9	112.5	115.8	139.9	157.0
85°	88.4	82.7	78.0	102.1	111.2
87.5°	44.8	45.9	41.2	52.9	53.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)