

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: P798134

Luminaire Tested: 14GRSCT3-A-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P290984)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-A-UNV-MID-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

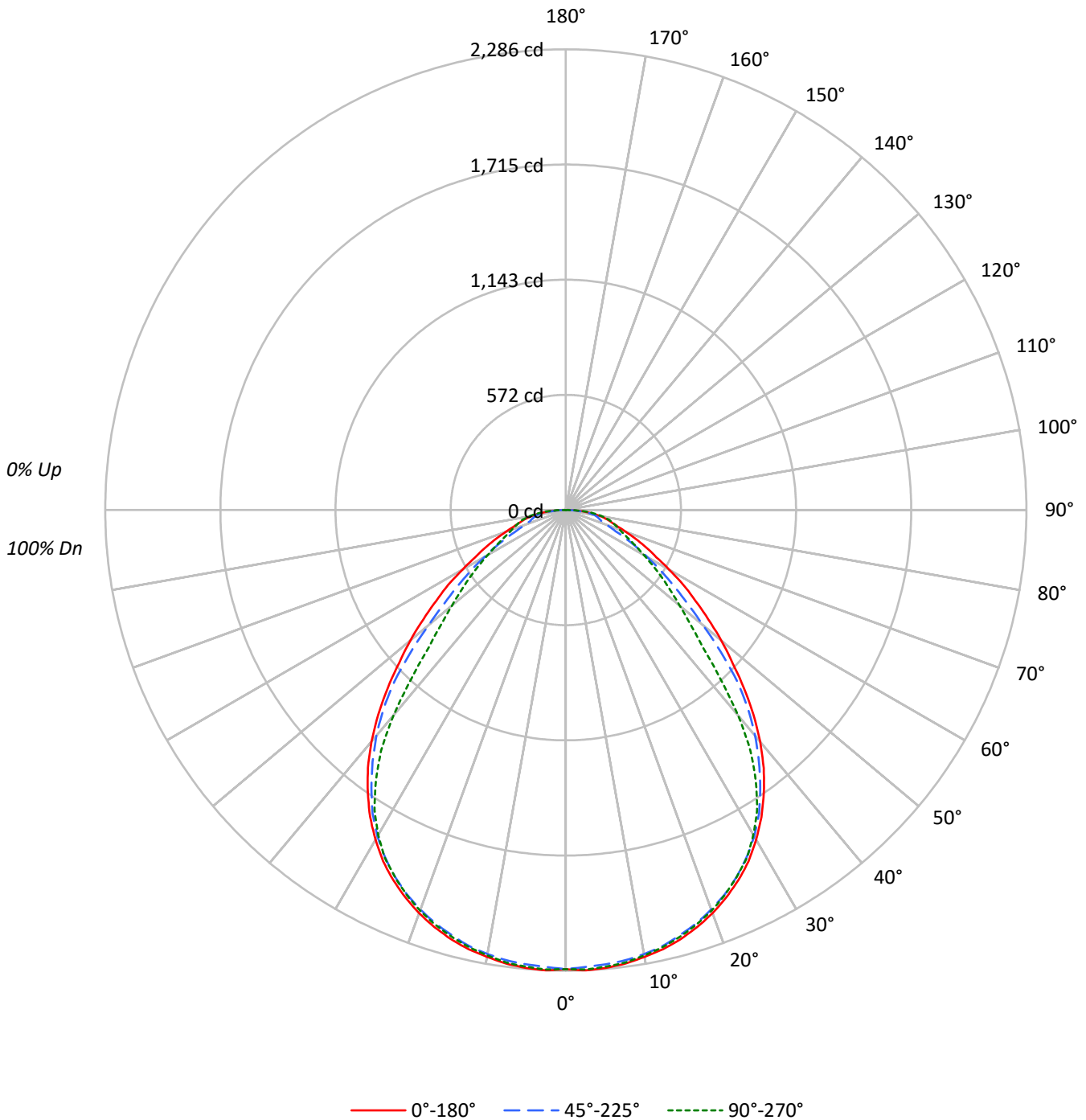
Lumens per Lamp: N/A
Luminaire Lumens: 4971.6 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (A_{in}): 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	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	76	76	76	74
3	93	84	76	71	91	82	75	70	79	73	69	77	72	68	74	70	66	66	66	66	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58	58	58	58	56
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52	52	52	52	50
6	74	62	54	48	72	61	53	47	59	52	47	58	51	47	56	51	46	46	46	46	44
7	69	57	48	43	67	56	48	43	54	47	42	53	47	42	52	46	42	42	42	42	40
8	65	52	44	38	63	51	44	38	50	43	38	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	47	40	35	46	39	35	45	39	35	44	39	34	34	34	34	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	31	31	31	31	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6131	6131	6131
5°	6160	6113	6145
10°	6152	6114	6130
15°	6141	6086	6106
20°	6098	6041	6058
25°	6017	5959	5962
30°	5870	5809	5784
35°	5629	5526	5402
40°	5270	5135	4673
45°	4759	4579	3651
50°	4220	3718	3089
55°	3684	3050	2725
60°	3195	2511	2406
65°	2802	2015	2220
70°	2498	1708	2234
75°	2436	1801	2498
80°	2704	2273	2865
85°	2819	2424	3347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°
 Vertical Angle: 45°
 Luminance: 4776 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.2	4.3
10°-20°	619.2	12.5
20°-30°	926.3	18.6
30°-40°	1045.6	21.0
40°-50°	887.1	17.8
50°-60°	600.2	12.1
60°-70°	358.3	7.2
70°-80°	224.4	4.5
80°-90°	94.4	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°	1761.7	35.4
0°-40°	2807.3	56.5
0°-60°	4294.6	86.4
0°-90°	4971.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4971.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2278	2278	2278	2278	2278	
5°	2281	2274	2263	2279	2275	217
15°	2204	2200	2185	2200	2192	622
25°	2027	2020	2007	2016	2008	932
35°	1714	1702	1682	1667	1644	1068
45°	1250	1255	1203	1031	960	964
55°	785	748	650	582	581	707
65°	440	365	316	337	349	440
75°	234	209	173	229	240	252
85°	91	87	78	102	108	98
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2278.3	2278.3	2278.3	2278.3	2278.3
2.5°	2286.4	2279.3	2268.9	2282.7	2281.7
5°	2280.6	2273.6	2263.2	2279.3	2274.7
7.5°	2270.2	2264.3	2253.9	2268.9	2264.3
10°	2251.5	2247.1	2237.7	2250.5	2243.5
12.5°	2232.0	2228.6	2216.9	2228.6	2221.6
15°	2204.2	2199.8	2184.7	2199.8	2191.7
17.5°	2169.6	2163.9	2151.1	2163.9	2156.9
20°	2129.3	2122.3	2109.5	2122.3	2115.3
22.5°	2080.7	2075.0	2063.5	2075.0	2065.9
25°	2026.6	2019.6	2006.8	2016.2	2007.9
27.5°	1964.2	1954.8	1943.4	1950.2	1945.7
30°	1889.0	1877.6	1869.5	1869.5	1861.5
32.5°	1807.1	1799.1	1785.0	1777.0	1766.6
35°	1713.5	1702.1	1682.3	1667.3	1644.4
37.5°	1613.2	1599.1	1574.9	1537.0	1505.8
40°	1500.1	1482.6	1461.8	1386.7	1330.3
42.5°	1378.6	1375.2	1339.4	1211.2	1132.6
45°	1250.4	1255.1	1203.1	1031.2	959.5
47.5°	1121.2	1137.3	1042.7	874.2	837.3
50°	1008.1	1013.8	888.0	758.7	737.9
52.5°	891.3	882.2	757.4	667.5	652.4
55°	785.3	748.3	650.1	581.9	580.9
57.5°	691.7	623.5	555.4	504.7	510.4
60°	593.6	517.2	466.5	438.7	447.0
62.5°	506.8	434.2	389.3	380.9	395.0
65°	440.0	364.8	316.4	337.2	348.7
67.5°	376.5	312.8	257.4	307.1	311.8
70°	317.5	271.5	217.1	282.9	283.9
72.5°	269.1	240.3	188.3	256.4	259.8
75°	234.3	209.1	173.2	228.6	240.3
77.5°	205.4	178.9	160.4	197.4	217.1
80°	174.5	144.3	146.7	165.1	184.9
82.5°	133.9	112.1	116.7	136.3	150.0
85°	91.3	86.6	78.5	101.7	108.4
87.5°	48.6	46.3	40.3	57.7	54.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)