

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: P798179

Luminaire Tested: 14GRSCT3-FGW080-UNV-MID-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798179
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291572)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-FGW080-UNV-MID-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

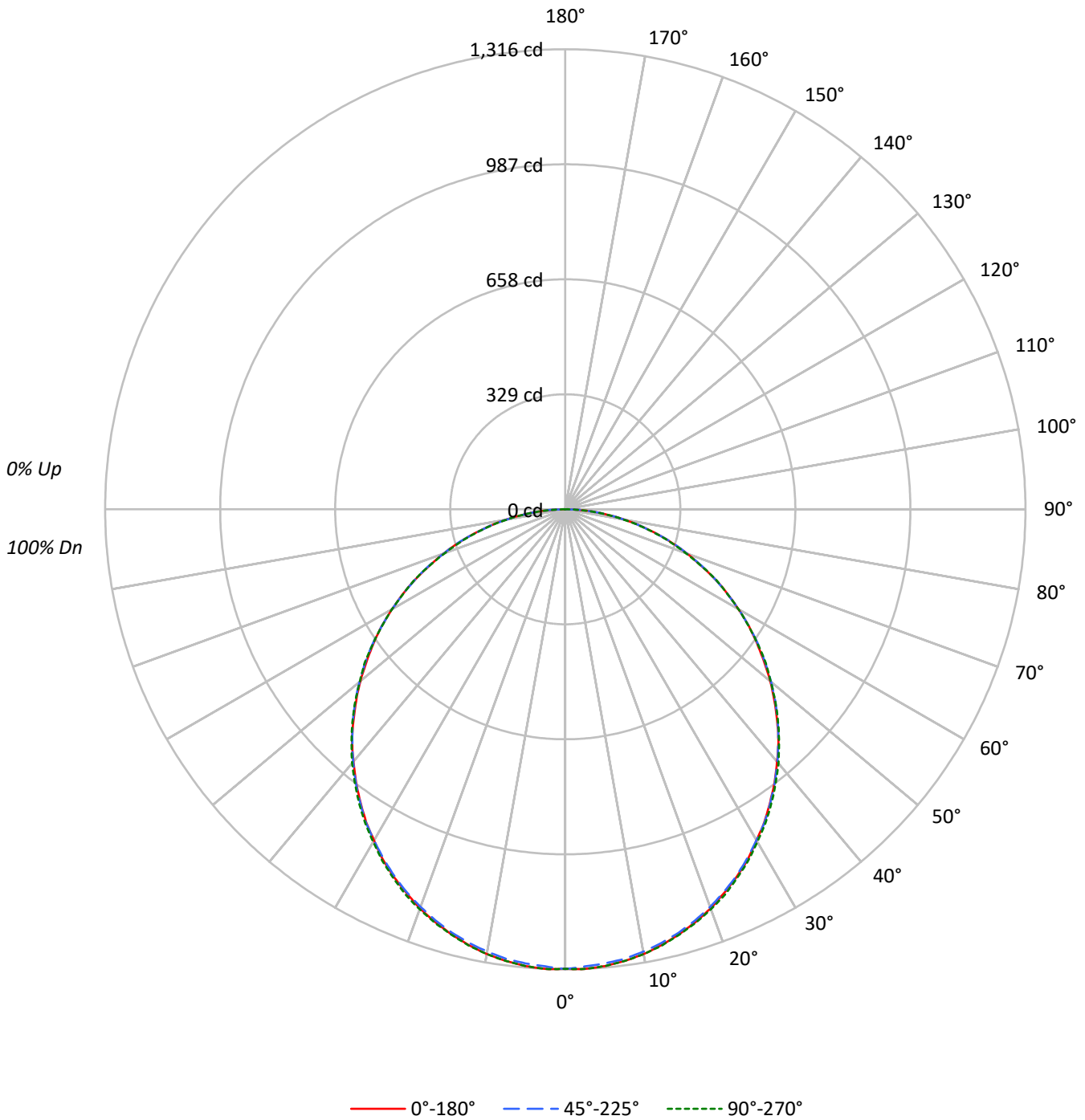
Lumens per Lamp: N/A
Luminaire Lumens: 3759.9 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	100	100	100	100
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	83	83	83	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69	69	69	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58	58	58	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49	49	49	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42	42	42	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37	37	37	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33	33	33	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29	29	29	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26	26	26	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24	24	24	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3538	3538	3538
5°	3542	3522	3542
10°	3531	3511	3531
15°	3506	3492	3509
20°	3480	3466	3487
25°	3444	3437	3455
30°	3398	3398	3414
35°	3356	3360	3376
40°	3310	3315	3331
45°	3261	3271	3275
50°	3205	3216	3210
55°	3141	3158	3152
60°	3079	3079	3079
65°	3009	3009	3023
70°	2913	2913	2884
75°	2811	2798	2787
80°	2684	2664	2644
85°	2519	2489	2408

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 3275 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	3.3
10°-20°	354.9	9.4
20°-30°	534.8	14.2
30°-40°	640.9	17.0
40°-50°	662.7	17.6
50°-60°	600.9	16.0
60°-70°	467.0	12.4
70°-80°	285.2	7.6
80°-90°	89.2	2.4
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°	1014.0	27.0
0°-40°	1654.9	44.0
0°-60°	2918.5	77.6
0°-90°	3759.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3759.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1315	1315	1315	1315	1315	
5°	1311	1310	1304	1310	1311	125
15°	1258	1258	1254	1260	1260	355
25°	1160	1160	1157	1165	1164	534
35°	1022	1023	1023	1028	1028	639
45°	857	858	859	861	861	661
55°	670	672	673	673	672	599
65°	472	472	472	470	475	467
75°	270	270	269	268	268	286
85°	82	79	81	78	78	90
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1314.9	1314.9	1314.9	1314.9	1314.9
2.5°	1316.2	1314.9	1309.0	1314.9	1316.2
5°	1311.3	1310.0	1304.0	1310.0	1311.3
7.5°	1303.0	1303.0	1297.0	1303.0	1303.0
10°	1292.1	1291.0	1284.8	1291.0	1292.1
12.5°	1276.5	1276.5	1270.5	1276.5	1277.8
15°	1258.5	1258.5	1253.6	1259.6	1259.6
17.5°	1238.0	1239.3	1233.3	1240.3	1240.3
20°	1215.1	1214.1	1210.4	1216.4	1217.7
22.5°	1187.5	1188.8	1185.2	1192.2	1193.5
25°	1160.0	1160.0	1157.4	1164.6	1163.6
27.5°	1129.8	1129.8	1126.2	1132.1	1133.4
30°	1093.7	1095.0	1093.7	1099.9	1098.6
32.5°	1060.1	1061.4	1061.4	1063.8	1064.8
35°	1021.6	1022.9	1022.9	1027.6	1027.6
37.5°	983.2	983.2	984.5	988.1	988.1
40°	942.3	943.6	943.6	947.0	948.3
42.5°	902.5	900.2	901.5	905.1	905.1
45°	857.0	858.1	859.4	860.7	860.7
47.5°	811.3	813.6	814.9	816.2	814.9
50°	765.5	768.1	768.1	766.8	766.8
52.5°	716.4	722.3	721.0	721.0	723.6
55°	669.6	671.9	673.2	673.2	671.9
57.5°	622.5	625.1	622.5	623.8	621.5
60°	572.1	573.4	572.1	572.1	572.1
62.5°	522.9	523.9	521.6	521.6	521.6
65°	472.5	472.5	472.5	469.9	474.8
67.5°	419.4	421.8	421.8	423.1	418.4
70°	370.3	371.3	370.3	369.0	366.6
72.5°	320.9	322.2	323.2	318.5	317.2
75°	270.4	270.4	269.1	268.1	268.1
77.5°	221.3	221.3	221.3	218.7	218.7
80°	173.2	174.2	171.9	171.9	170.6
82.5°	126.1	126.1	126.1	125.1	122.5
85°	81.6	79.3	80.6	78.0	78.0
87.5°	37.2	37.2	37.2	34.8	39.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)