

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: PORTFOLIO

Report Number: P743996

Luminaire Tested: LD4D20D010-EU4DR2015309040-4LBS1B

Issue Date: 2/2/2024

Test Information

Test Method: LM-79-2019
Report Number: P743996
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-36)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/2/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LD4D20D010-EU4DR2015309040-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 20° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2088.1 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Spacing Criteria (0/90/45): 0.34 / 0.34 / 0.36
Luminous Opening: Circular (Dia: 0.35' x H: 0')
CIE Type: Direct

Input Watts (W): 23.1
Input Voltage (V): NR
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

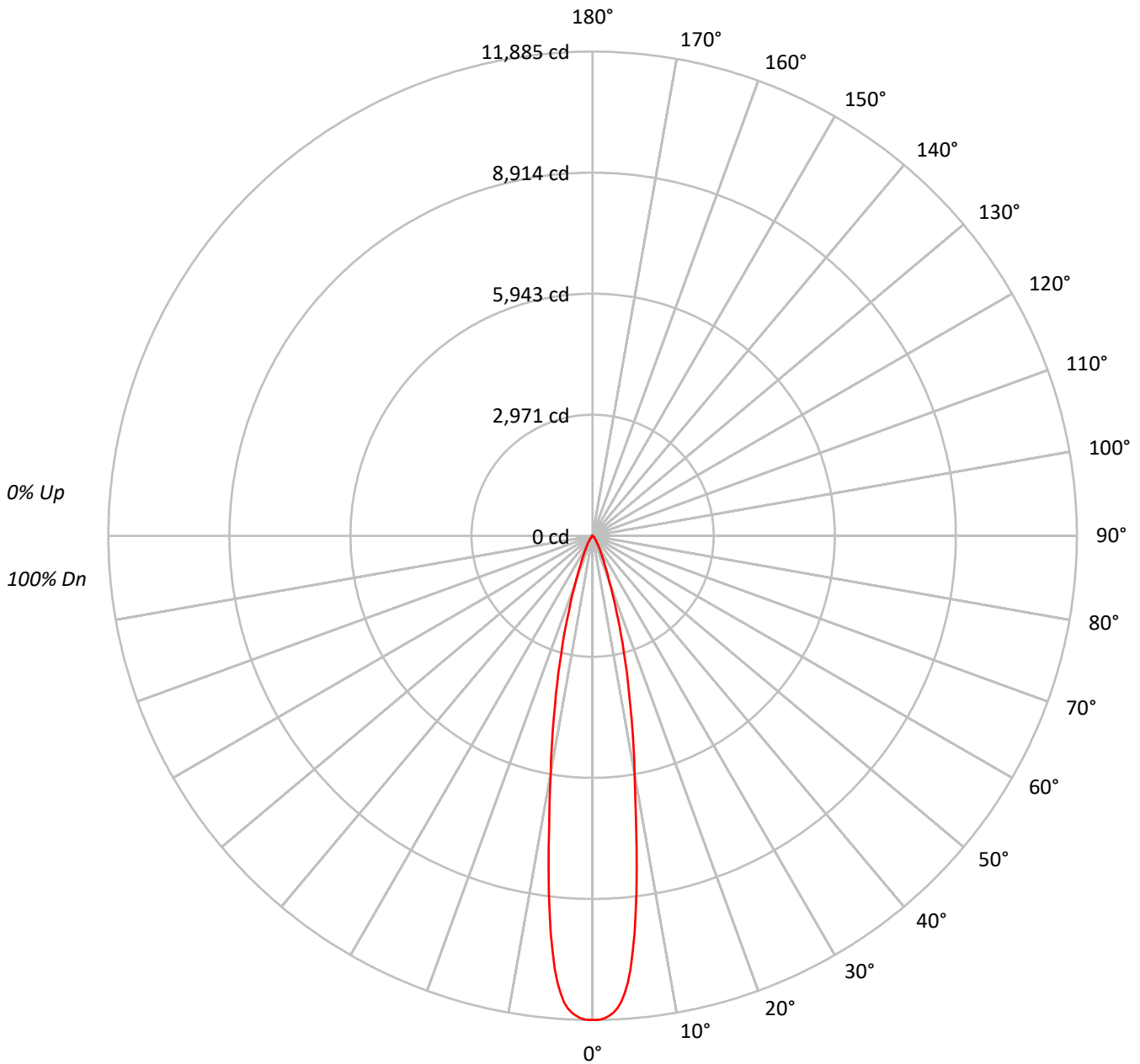


Downlight



TEST NUMBER: P743996
CATALOG NUMBER: LD4D20D010-EU4DR2015309040-4LBS1B

Luminous Intensity Polar Plot





TEST NUMBER: P743996

CATALOG NUMBER: LD4D20D010-EU4DR2015309040-4LBS1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	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													
1	115	113	111	109	113	111	109	108	107	106	104	103	102	101	100	99	98	100	99	98	97	98	96	95	94												
2	111	108	105	102	109	106	104	101	103	101	99	100	99	97	98	96	95	98	96	95	94	93	92	91	94												
3	108	103	100	97	106	102	99	96	100	97	95	97	95	93	95	93	92	98	96	95	94	93	92	91	94												
4	105	99	96	93	103	98	95	92	96	93	91	95	92	90	93	91	89	98	96	95	94	93	92	91	88												
5	102	96	92	89	100	95	91	89	94	90	88	92	89	87	91	88	86	98	96	95	94	93	92	91	85												
6	99	93	89	86	98	92	88	86	91	87	85	90	87	84	88	86	84	98	96	95	94	93	92	91	83												
7	96	90	86	83	95	89	86	83	88	85	82	87	84	82	86	84	82	98	96	95	94	93	92	91	81												
8	94	87	83	81	93	87	83	80	86	83	80	85	82	80	84	82	80	98	96	95	94	93	92	91	79												
9	91	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	78	98	96	95	94	93	92	91	77												
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	81	78	76	98	96	95	94	93	92	91	75												

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	1298542
5°	1171527
10°	657523
15°	334232
20°	141516
25°	65329
30°	34581
35°	18634
40°	9956
45°	5887
50°	3417
55°	1810
60°	1158
65°	827
70°	351
75°	0
80°	0
85°	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5887 cd/sqm



TEST NUMBER: P743996

CATALOG NUMBER: LD4D20D010-EU4DR2015309040-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	846.2	40.5
10°-20°	833.2	39.9
20°-30°	272.2	13.0
30°-40°	92.7	4.4
40°-50°	31.2	1.5
50°-60°	9.4	0.4
60°-70°	3.1	0.1
70°-80°	0.1	0.0
80°-90°	0.0	0.0
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°	1951.6	93.5
0°-40°	2044.3	97.9
0°-60°	2084.8	99.8
0°-90°	2088.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2088.1	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	11885	
5°	10682	846
15°	2955	833
25°	542	272
35°	140	93
45°	38	31
55°	10	9
65°	3	3
75°	0	0
85°	0	0
90°	0	



TEST NUMBER: P743996

CATALOG NUMBER: LD4D20D010-EU4DR2015309040-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°
0°	11884.8
0.5°	11884.8
1°	11870.0
1.5°	11840.4
2°	11786.4
2.5°	11714.4
3°	11612.8
3.5°	11471.0
4°	11260.4
4.5°	11004.3
5°	10681.5
5.5°	10257.1
6°	9822.2
6.5°	9323.7
7°	8835.8
7.5°	8264.3
8°	7754.2
8.5°	7241.0
9°	6766.8
9.5°	6331.9
10°	5926.5
12.5°	4255.5
15°	2954.8
17.5°	1930.4
20°	1217.1
22.5°	788.4
25°	541.9
27.5°	381.0
30°	274.1
32.5°	196.8
35°	139.7
37.5°	97.4
40°	69.8
42.5°	50.8
45°	38.1
47.5°	29.6
50°	20.1
52.5°	12.7
55°	9.5
57.5°	7.4
60°	5.3
62.5°	4.2
65°	3.2



TEST NUMBER: P743996
CATALOG NUMBER: LD4D20D010-EU4DR2015309040-4LBS1B

CANDELA DISTRIBUTION (continued):

	0°
72.5°	0.0
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



— 0°-180°

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





67.5°		2.1
70°		1.1

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



(END OF REPORT)