

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: P781720

Luminaire Tested: LER4D50D010-EC4DR3040509035-4LBS1B

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P781720
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2307-078-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/30/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LER4D50D010-EC4DR3040509035-4LBS1B
Description: 4 INCH ROUND SHALLOW SPECULAR BLACK TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4713.3 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 0.52 / 0.52 / 0.49
Luminous Opening: Rectangular (W 0.38' x L: 0.38' x H: 0')
CIE Type: Direct

Input Watts (W): 47
Input Voltage (V): NR
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

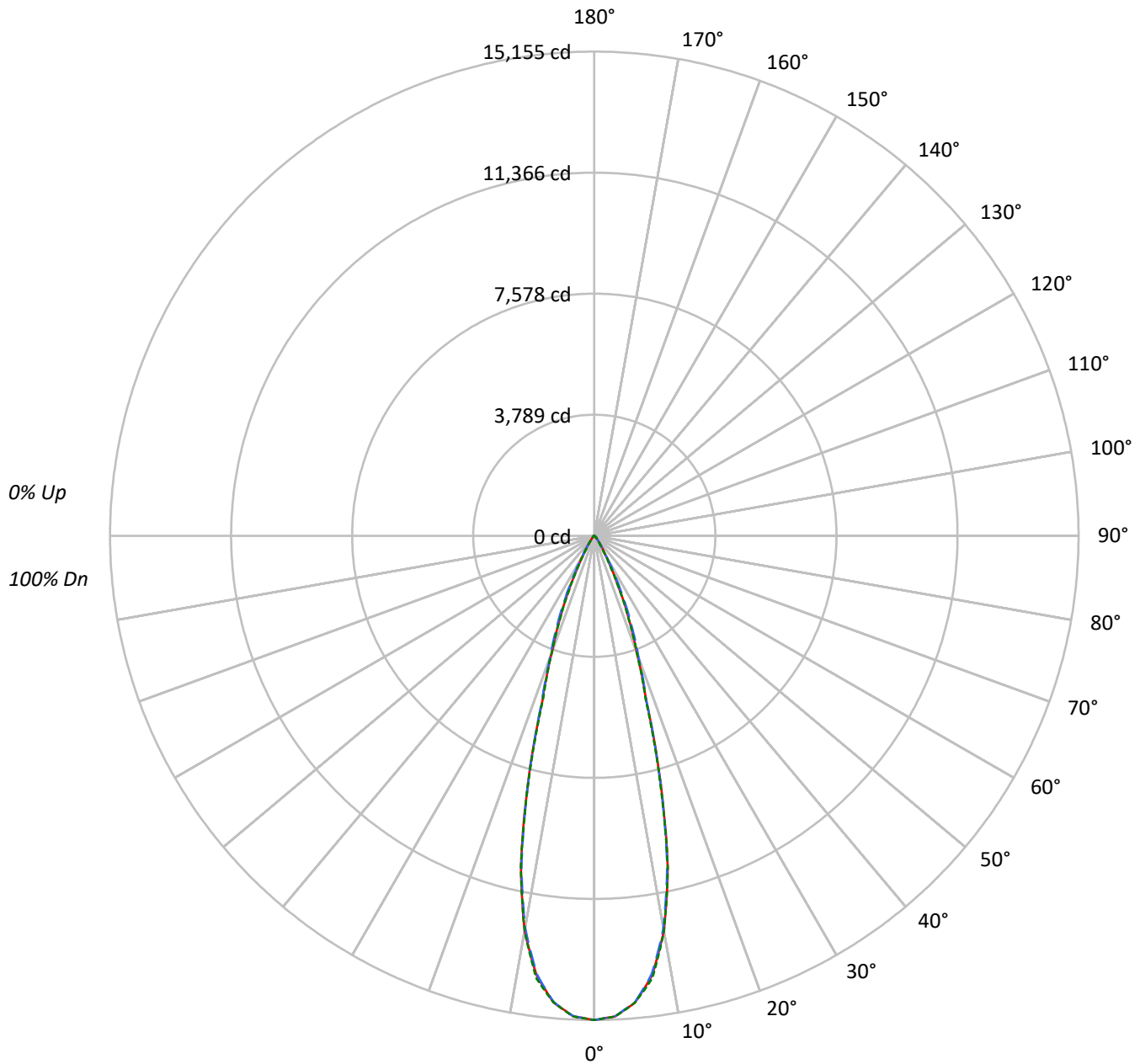


Downlight

TEST NUMBER: P781720

CATALOG NUMBER: LER4D50D010-EC4DR3040509035-4LBS1B

Luminous Intensity Polar Plot



TEST NUMBER: P781720

CATALOG NUMBER: LER4D50D010-EC4DR3040509035-4LBS1B

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87
5	100	94	89	86	98	93	89	86	91	88	85	90	86	84	88	86	83
6	97	90	85	82	95	89	85	82	88	84	81	87	83	81	85	83	80
7	94	87	82	79	92	86	82	79	85	81	78	84	81	78	83	80	78
8	91	84	79	76	90	83	79	76	82	78	76	81	78	75	80	77	75
9	88	81	76	73	87	80	76	73	80	76	73	79	75	73	78	75	73
10	85	78	74	71	85	78	74	71	77	73	71	76	73	71	76	73	70

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1160046	1160046	1160046
5°	1126743	1125429	1126797
10°	975928	969050	975695
15°	636746	633322	630145
20°	316627	328503	316203
25°	159496	179850	156227
30°	63858	69576	55638
35°	29621	28369	23781
40°	12790	14199	12040
45°	9017	11193	9104
50°	3096	8157	3275
55°	1788	3376	1882
60°	1255	1485	1255
65°	815	815	815
70°	492	336	492
75°	0	207	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 11193 cd/sqm

TEST NUMBER: P781720

CATALOG NUMBER: LER4D50D010-EC4DR3040509035-4LBS1B

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1332.7	28.3
10°-20°	2146.3	45.5
20°-30°	927.5	19.7
30°-40°	211.4	4.5
40°-50°	72.6	1.5
50°-60°	17.7	0.4
60°-70°	4.6	0.1
70°-80°	0.5	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°	4406.5	93.5
0°-40°	4617.8	98.0
0°-60°	4708.2	99.9
0°-90°	4713.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4713.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15155	15155	15155	15155	15155	
5°	14664	14650	14647	14678	14665	1334
15°	8035	7939	7992	7966	7952	2152
25°	1888	1960	2130	1910	1850	904
35°	317	324	304	301	254	215
45°	83	103	103	103	84	59
55°	13	14	25	15	14	13
65°	4	4	4	4	4	4
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P781720

CATALOG NUMBER: LER4D50D010-EC4DR3040509035-4LBS1B

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15155.4	15155.4	15155.4	15155.4	15155.4
2.5°	15054.9	15044.5	15050.5	15057.9	15060.9
5°	14664.3	14650.1	14647.2	14677.7	14665.0
7.5°	13876.3	13856.2	13825.7	13894.9	13959.6
10°	12556.3	12534.0	12467.8	12500.5	12553.3
12.5°	10607.6	10535.4	10533.9	10638.1	10623.9
15°	8035.3	7938.6	7992.1	7966.1	7952.0
17.5°	5403.5	5366.3	5437.7	5416.1	5323.1
20°	3887.1	3896.7	4032.9	3964.4	3881.9
22.5°	2836.4	2871.4	3032.9	2856.5	2791.8
25°	1888.5	1959.9	2129.5	1910.0	1849.8
27.5°	1161.5	1194.2	1366.1	1146.6	1113.9
30°	722.5	706.1	787.2	675.6	629.5
32.5°	474.0	453.1	479.2	430.1	392.9
35°	317.0	323.7	303.6	301.4	254.5
37.5°	197.9	227.7	200.9	214.3	163.7
40°	128.0	165.2	142.1	157.0	120.5
42.5°	104.9	127.2	116.8	124.3	107.1
45°	83.3	103.4	103.4	103.4	84.1
47.5°	46.1	69.2	88.5	70.7	49.1
50°	26.0	35.0	68.5	36.5	27.5
52.5°	17.9	20.1	46.9	20.8	18.6
55°	13.4	14.1	25.3	14.9	14.1
57.5°	10.4	11.2	13.4	11.2	10.4
60°	8.2	8.2	9.7	8.9	8.2
62.5°	6.0	6.0	6.7	6.0	6.0
65°	4.5	4.5	4.5	4.5	4.5
67.5°	2.2	3.0	3.0	3.0	3.0
70°	2.2	1.5	1.5	1.5	2.2
72.5°	1.5	0.7	0.7	0.7	0.7
75°	0.0	0.0	0.7	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670245859 / DESKTOP-T8S5UU9





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)