

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: P756149

Luminaire Tested: LD4D95BD010-EU4DR3070959035-4LBDP1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P756149
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: LD4D95BD010-EU4DR3070959035-4LBDP1LI
Description: 4 INCH ROUND DEEP 45° CUTOFF SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9121.9 lumens
Efficiency: N/A
Efficacy: 92.0 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): 99.2
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

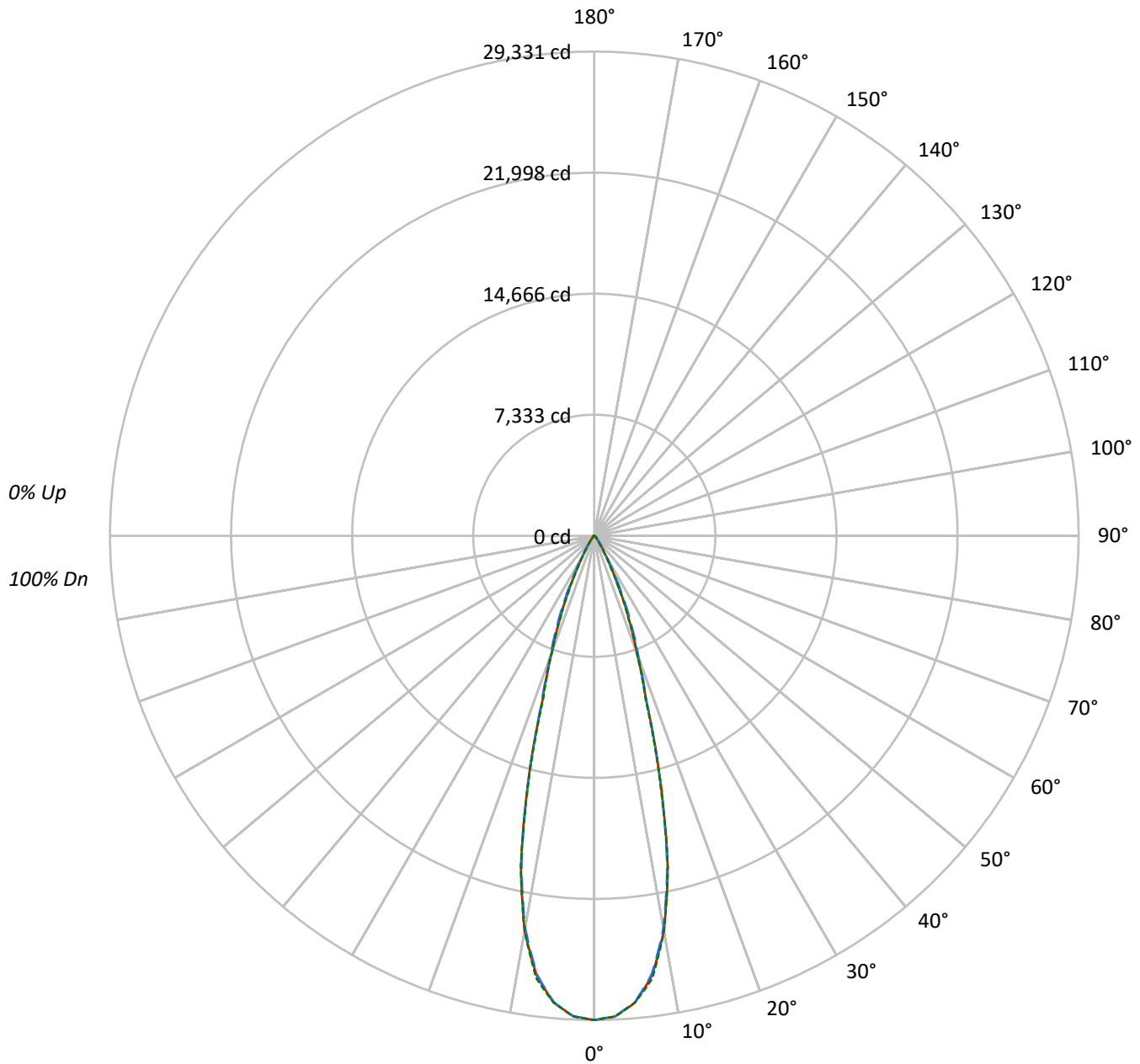


Downlight

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2245110	2245110	2245110
5°	2180653	2178110	2180768
10°	1888776	1875462	1888333
15°	1232332	1225716	1219550
20°	612784	635771	611961
25°	308679	348087	302354
30°	123588	134663	107679
35°	57327	54897	46020
40°	24750	27488	23311
45°	17461	21671	17612
50°	6002	15778	6347
55°	3456	6539	3657
60°	2419	2863	2419
65°	1558	1558	1558
70°	962	649	962
75°	0	414	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 21671 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2579.2	28.3
10°-20°	4153.9	45.5
20°-30°	1795.0	19.7
30°-40°	409.1	4.5
40°-50°	140.5	1.5
50°-60°	34.3	0.4
60°-70°	8.9	0.1
70°-80°	0.9	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°	8528.1	93.5
0°-40°	8937.2	98.0
0°-60°	9112.0	99.9
0°-90°	9121.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9121.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29331	29331	29331	29331	29331	
5°	28381	28353	28348	28407	28382	2581
15°	15551	15364	15468	15417	15390	4164
25°	3655	3793	4122	3697	3580	1749
35°	614	626	588	583	492	416
45°	161	200	200	200	163	114
55°	26	27	49	29	27	25
65°	9	9	9	9	9	8
75°	0	0	1	0	0	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29331.2	29331.2	29331.2	29331.2	29331.2
2.5°	29136.8	29116.6	29128.1	29142.5	29148.3
5°	28380.7	28353.4	28347.6	28406.7	28382.2
7.5°	26855.7	26816.8	26757.8	26891.7	27017.0
10°	24301.0	24257.8	24129.7	24193.0	24295.3
12.5°	20529.5	20389.8	20387.0	20588.6	20561.2
15°	15551.2	15364.0	15467.7	15417.3	15389.9
17.5°	10457.7	10385.7	10524.0	10482.2	10302.2
20°	7522.9	7541.6	7805.1	7672.6	7512.8
22.5°	5489.5	5557.2	5869.7	5528.4	5403.1
25°	3654.9	3793.1	4121.5	3696.6	3580.0
27.5°	2247.9	2311.3	2644.0	2219.1	2155.8
30°	1398.3	1366.6	1523.6	1307.6	1218.3
32.5°	917.3	877.0	927.4	832.4	760.4
35°	613.5	626.4	587.5	583.2	492.5
37.5°	383.1	440.7	388.8	414.7	316.8
40°	247.7	319.7	275.1	303.9	233.3
42.5°	203.0	246.3	226.1	240.5	207.4
45°	161.3	200.2	200.2	200.2	162.7
47.5°	89.3	133.9	171.4	136.8	95.0
50°	50.4	67.7	132.5	70.6	53.3
52.5°	34.6	38.9	90.7	40.3	36.0
55°	25.9	27.4	49.0	28.8	27.4
57.5°	20.2	21.6	25.9	21.6	20.2
60°	15.8	15.8	18.7	17.3	15.8
62.5°	11.5	11.5	13.0	11.5	11.5
65°	8.6	8.6	8.6	8.6	8.6
67.5°	4.3	5.8	5.8	5.8	5.8
70°	4.3	2.9	2.9	2.9	4.3
72.5°	2.9	1.4	1.4	1.4	1.4
75°	0.0	0.0	1.4	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)