

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: P780478

Luminaire Tested: LER4D25D010-EC4DR3020359040-4LBS1LI

Issue Date: 1/30/2024

Test Information

Test Method: LM-79-2019
Report Number: P780478
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: LER4D25D010-EC4DR3020359040-4LBS1LI
Description: 4 INCH ROUND SHALLOW SPECULAR CLEAR TRIM, WITH 30° OPTIC
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2790.1 lumens
Efficiency: N/A
Efficacy: 111.2 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): 25.1
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



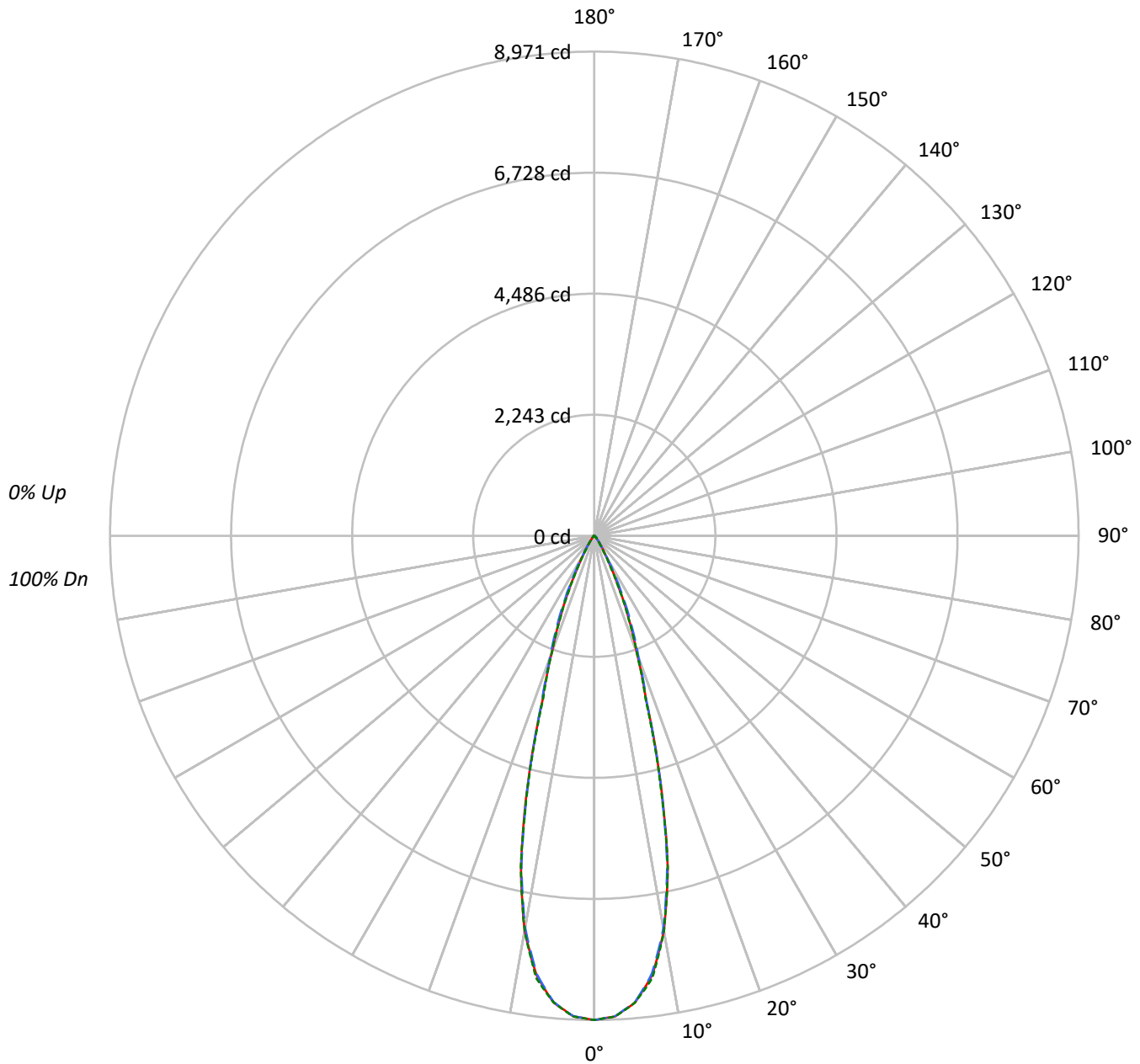
Downlight



TEST NUMBER: P780478

CATALOG NUMBER: LER4D25D010-EC4DR3020359040-4LBS1LI

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	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°	686701	686701	686701
5°	666988	666212	667027
10°	577716	573643	577576
15°	376930	374909	373015
20°	187430	194459	187177
25°	94414	106466	92480
30°	37802	41187	32932
35°	17530	16792	14072
40°	7564	8403	7124
45°	5337	6625	5391
50°	1834	4823	1941
55°	1054	2002	1121
60°	750	873	750
65°	471	471	471
70°	291	201	291
75°	0	148	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 22.5°

Vertical Angle: 45°

Luminance: 6625 cd/sqm

TEST NUMBER: P780478

CATALOG NUMBER: LER4D25D010-EC4DR3020359040-4LBS1LI

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	788.9	28.3
10°-20°	1270.5	45.5
20°-30°	549.0	19.7
30°-40°	125.1	4.5
40°-50°	43.0	1.5
50°-60°	10.5	0.4
60°-70°	2.7	0.1
70°-80°	0.3	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°	2608.5	93.5
0°-40°	2733.6	98.0
0°-60°	2787.1	99.9
0°-90°	2790.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2790.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8971	8971	8971	8971	8971	
5°	8681	8672	8671	8689	8681	790
15°	4757	4699	4731	4716	4707	1274
25°	1118	1160	1261	1131	1095	535
35°	188	192	180	178	151	127
45°	49	61	61	61	50	35
55°	8	8	15	9	8	8
65°	3	3	3	3	3	3
75°	0	0	0	0	0	0
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°	8971.4	8971.4	8971.4	8971.4	8971.4
2.5°	8912.0	8905.8	8909.3	8913.7	8915.5
5°	8680.7	8672.4	8670.6	8688.7	8681.2
7.5°	8214.3	8202.4	8184.3	8225.3	8263.6
10°	7432.9	7419.7	7380.5	7399.8	7431.1
12.5°	6279.3	6236.6	6235.7	6297.4	6289.0
15°	4756.6	4699.3	4731.1	4715.6	4707.2
17.5°	3198.7	3176.7	3219.0	3206.2	3151.1
20°	2301.0	2306.7	2387.3	2346.8	2297.9
22.5°	1679.1	1699.8	1795.3	1690.9	1652.6
25°	1117.9	1160.2	1260.6	1130.7	1095.0
27.5°	687.5	707.0	808.7	678.8	659.4
30°	427.7	418.0	466.0	399.9	372.6
32.5°	280.6	268.3	283.7	254.6	232.6
35°	187.6	191.6	179.7	178.4	150.6
37.5°	117.2	134.8	118.9	126.9	96.9
40°	75.7	97.8	84.1	92.9	71.3
42.5°	62.1	75.3	69.2	73.6	63.4
45°	49.3	61.2	61.2	61.2	49.8
47.5°	27.3	41.0	52.4	41.8	29.0
50°	15.4	20.7	40.5	21.6	16.3
52.5°	10.6	11.9	27.7	12.3	11.0
55°	7.9	8.4	15.0	8.8	8.4
57.5°	6.2	6.6	7.9	6.6	6.2
60°	4.9	4.9	5.7	5.3	4.9
62.5°	3.6	3.6	4.0	3.6	3.6
65°	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.8	1.8	1.8	1.8
70°	1.3	0.9	0.9	0.9	1.3
72.5°	0.9	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.5	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)