

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: NEO-RAY

Report Number: P1034537

Luminaire Tested: S125DIW-B375D770UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034537
REPORT IS A COMBINATION OF REPORTS P1003670 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D770UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

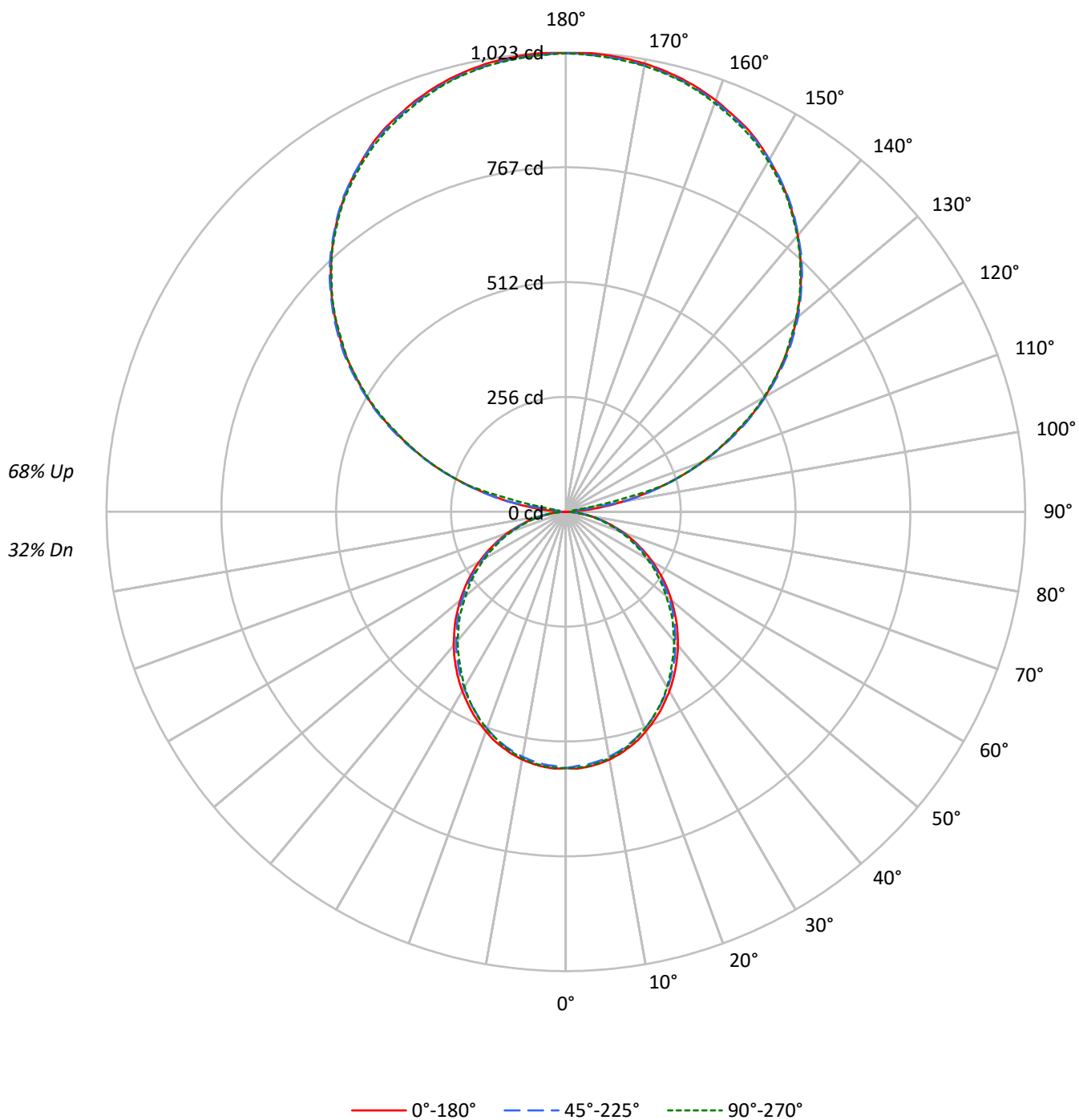
Lumens per Lamp: N/A
Luminaire Lumens: 4624.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
Input Voltage (V):
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

TEST NUMBER: P1034537

CATALOG NUMBER: S125DIW-B375D770UB2750-4F0-XX-W2A-F_3500K

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	103	103	103	103	93	93	93	93	73	73	73		56	56	56		40
1	94	90	86	82	84	81	78	75	64	62	60		49	48	46		35
2	85	78	72	67	77	70	65	61	56	53	50		43	41	39		31
3	78	69	61	56	70	62	56	51	49	45	42		38	35	33		27
4	71	61	53	47	64	55	48	43	44	39	35		34	30	28		24
5	65	54	46	40	58	49	42	37	39	34	30		30	27	24		22
6	60	48	40	35	54	44	37	32	35	30	26		27	24	21		20
7	55	43	36	30	50	39	33	28	32	27	23		25	21	18		18
8	51	39	32	27	46	36	29	25	29	24	20		23	19	16		17
9	48	36	28	24	43	33	26	22	26	22	18		21	17	15		15
10	44	33	26	21	40	30	24	19	24	20	16		19	16	13		14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3658	3658	3658
5°	3658	3573	3580
10°	3628	3491	3480
15°	3580	3393	3363
20°	3516	3280	3228
25°	3446	3156	3084
30°	3364	3026	2932
35°	3274	2891	2761
40°	3183	2748	2610
45°	3083	2609	2450
50°	2973	2451	2262
55°	2865	2276	2090
60°	2735	2092	1889
65°	2580	1879	1682
70°	2423	1635	1443
75°	2158	1346	1167
80°	1839	1005	859
85°	1418	595	472

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3083 cd/sqm

TEST NUMBER: P1034537

CATALOG NUMBER: S125DIW-B375D770UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.2
10°-20°	152.2	3.3
20°-30°	224.7	4.9
30°-40°	262.1	5.7
40°-50°	263.3	5.7
50°-60°	231.1	5.0
60°-70°	172.1	3.7
70°-80°	98.3	2.1
80°-90°	29.9	0.6
90°-100°	34.7	0.7
100°-110°	230.4	5.0
110°-120°	415.0	9.0
120°-130°	532.7	11.5
130°-140°	572.9	12.4
140°-150°	537.7	11.6
150°-160°	434.9	9.4
160°-170°	281.3	6.1
170°-180°	97.0	2.1
0°-30°	430.7	9.3
0°-40°	692.8	15.0
0°-60°	1187.2	25.7
0°-90°	1487.5	32.2
90°-120°	680.1	14.7
90°-150°	2323.3	50.2
90°-180°	3136.0	67.8
0°-180°	4624.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	571	571	571	571	571	
5°	570	569	565	569	568	54
15°	543	542	537	539	539	153
25°	493	491	485	486	485	227
35°	426	424	418	416	412	266
45°	349	347	342	336	335	269
55°	266	264	258	254	251	237
65°	179	178	173	169	168	178
75°	95	94	92	91	89	101
85°	25	25	25	25	24	27
90°	1	7	12	16	18	4
95°	43	41	12	16	16	53
105°	222	226	226	226	225	236
115°	418	422	422	419	415	414
125°	594	600	600	596	594	531
135°	741	746	744	742	738	571
145°	859	861	861	861	857	537
155°	946	942	943	945	939	436
165°	998	994	995	999	993	282
175°	1021	1016	1017	1023	1016	97
180°	1021	1021	1021	1021	1021	

TEST NUMBER: P1034537

CATALOG NUMBER: S125DIW-B375D770UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	570.9	570.9	570.9	570.9	570.9
2.5°	572.7	571.4	566.9	571.4	570.9
5°	570.0	569.1	564.6	568.7	568.2
7.5°	566.0	565.1	560.1	564.2	563.7
10°	560.1	559.2	554.2	557.8	557.4
12.5°	552.9	551.1	546.5	549.3	549.3
15°	543.4	542.0	537.1	539.3	539.3
17.5°	533.4	531.2	526.2	528.9	526.7
20°	520.3	519.4	513.6	516.7	514.5
22.5°	507.2	505.4	500.0	501.8	500.5
25°	493.2	491.0	485.1	486.0	484.7
27.5°	477.0	475.6	469.8	470.2	468.9
30°	461.2	459.8	453.0	452.1	450.8
32.5°	444.0	441.8	435.9	434.1	431.4
35°	425.9	424.1	417.8	415.6	411.9
37.5°	407.4	405.2	399.3	396.1	393.9
40°	388.5	386.2	379.9	375.8	374.4
42.5°	368.1	366.3	360.0	356.4	354.1
45°	348.7	346.9	341.5	336.1	334.7
47.5°	327.5	327.9	321.2	315.7	312.6
50°	307.1	305.8	300.4	294.5	291.3
52.5°	286.4	285.5	279.6	274.6	271.0
55°	265.6	264.2	257.9	253.8	250.7
57.5°	243.5	243.0	237.6	232.2	230.8
60°	222.7	220.9	215.9	211.4	208.2
62.5°	201.0	199.6	195.6	190.6	188.4
65°	179.3	178.4	173.4	169.4	167.6
67.5°	158.1	156.3	152.7	149.1	148.2
70°	138.2	136.0	131.9	129.2	127.4
72.5°	116.5	115.2	112.9	109.8	108.0
75°	95.3	94.4	92.1	90.8	89.0
77.5°	75.4	75.0	73.6	72.7	71.4
80°	56.9	56.9	56.0	55.6	54.7
82.5°	40.7	39.7	39.7	38.8	38.8
85°	24.8	25.3	25.3	24.8	23.9
87.5°	12.2	12.2	11.7	11.7	10.8
90°	0.8	6.8	12.1	15.9	18.2
92.5°	14.4	7.6	12.1	15.9	16.7
95°	43.1	40.9	12.1	15.9	15.9
97.5°	81.0	85.5	13.6	15.1	15.9
100°	126.4	128.7	131.7	18.9	15.9
102.5°	172.6	175.6	177.1	178.6	115.0
105°	222.5	225.6	225.6	225.6	224.8
107.5°	274.0	274.0	275.5	276.3	273.2
110°	324.0	324.0	325.5	323.2	324.0

TEST NUMBER: P1034537

CATALOG NUMBER: S125DIW-B375D770UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	370.9	373.2	373.9	370.9	369.4
115°	417.8	421.6	422.4	419.3	414.8
117.5°	467.0	467.0	470.0	465.5	464.0
120°	512.4	511.7	513.9	512.4	508.6
122.5°	552.5	556.3	557.1	555.6	551.0
125°	594.2	599.5	599.5	596.4	594.2
127.5°	634.3	638.1	637.3	635.8	629.7
130°	670.6	674.4	675.2	672.9	669.1
132.5°	706.9	711.5	709.2	709.2	705.4
135°	741.0	745.5	744.0	742.5	738.0
137.5°	772.8	777.3	775.8	775.8	772.0
140°	803.8	805.3	804.6	806.1	801.6
142.5°	831.8	832.6	834.1	834.1	829.6
145°	859.1	860.6	860.6	861.4	856.8
147.5°	883.3	883.3	884.1	884.8	879.5
150°	906.0	904.5	906.0	907.5	901.5
152.5°	928.0	924.2	925.7	927.2	921.9
155°	946.1	941.6	943.1	945.4	939.3
157.5°	960.5	958.2	958.2	960.5	954.5
160°	975.6	971.1	971.9	974.9	968.8
162.5°	987.8	983.2	984.0	988.5	981.7
165°	998.4	993.8	994.6	999.1	993.1
167.5°	1006.7	1002.1	1002.9	1008.2	1001.4
170°	1013.5	1008.2	1009.0	1015.0	1008.2
172.5°	1018.0	1012.7	1014.2	1019.5	1012.7
175°	1021.1	1016.5	1017.3	1023.3	1016.5
177.5°	1023.3	1018.8	1019.5	1024.8	1018.8
180°	1021.1	1021.1	1021.1	1021.1	1021.1

(END OF REPORT)