

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: P1035365

Luminaire Tested: S125DIW-B375D770UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035365
REPORT IS A COMBINATION OF REPORTS P1003686 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D770UB35-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

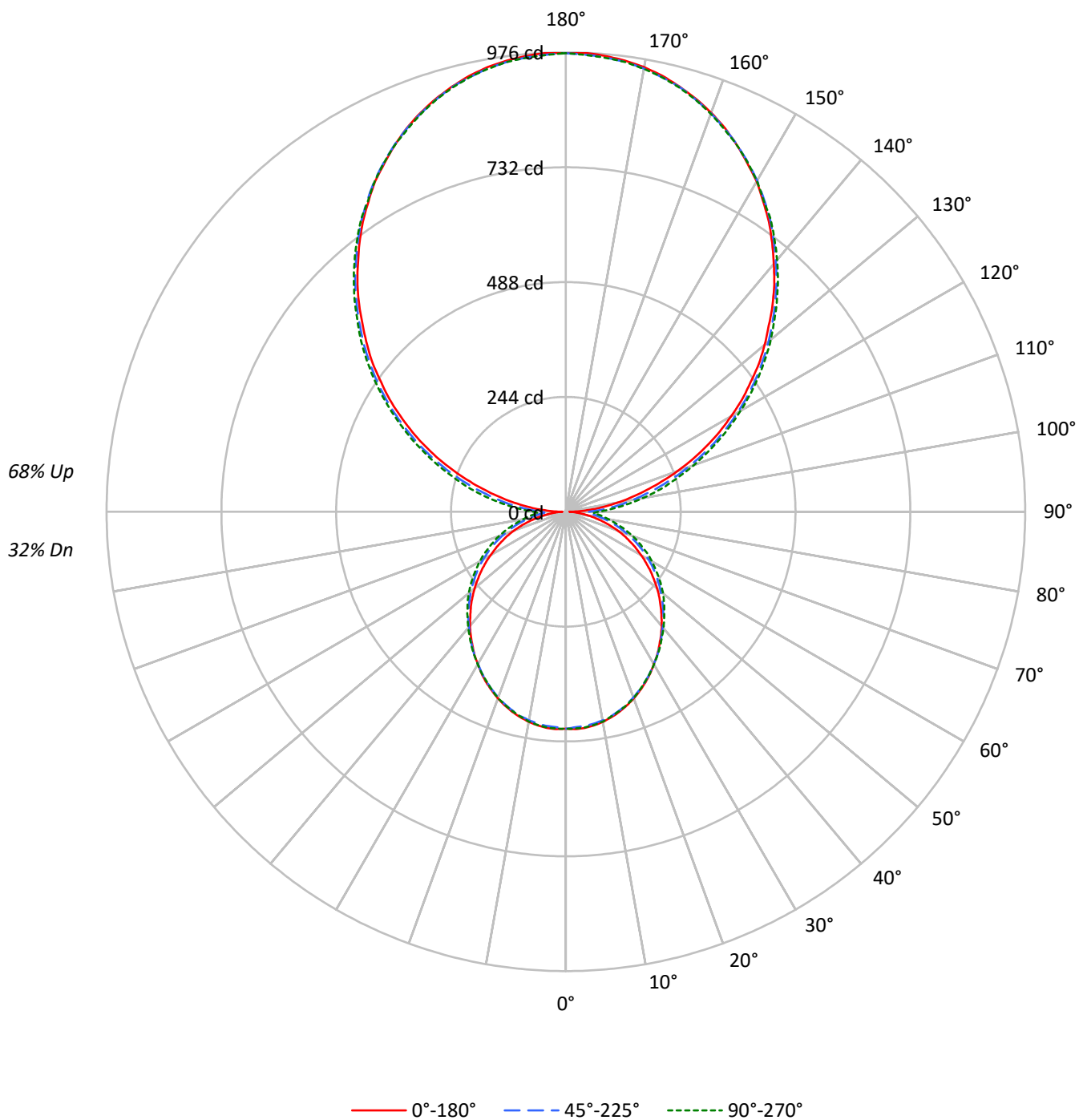
Lumens per Lamp: N/A
Luminaire Lumens: 4149.1 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1035365

CATALOG NUMBER: S125DIW-B375D770UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1035365

CATALOG NUMBER: S125DIW-B375D770UB35-4F0-XX-W2A-D1

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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40
1	93	89	85	81	84	80	77	74	64	61	59	48	47	46	34	34	33
2	85	77	71	66	76	70	65	60	55	52	49	42	40	38	30	29	27
3	77	68	60	55	69	61	55	50	49	44	41	37	34	32	26	25	23
4	70	60	52	46	63	54	47	42	43	38	34	33	30	27	24	21	20
5	65	53	45	39	58	48	41	36	38	33	29	29	26	23	21	19	17
6	59	47	39	34	53	43	36	31	34	29	25	27	23	20	19	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	20	18	17	15	13
8	51	39	31	26	45	35	28	24	28	23	20	22	18	16	16	14	12
9	47	35	28	23	42	32	25	21	26	21	17	20	17	14	15	12	11
10	44	32	25	20	39	29	23	19	24	19	16	19	15	13	14	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2954	2954	2954
5°	2958	2892	2899
10°	2936	2833	2825
15°	2900	2764	2734
20°	2852	2681	2643
25°	2795	2593	2534
30°	2725	2497	2434
35°	2661	2408	2342
40°	2595	2315	2250
45°	2521	2234	2166
50°	2450	2146	2092
55°	2364	2062	2004
60°	2270	1966	1915
65°	2171	1866	1815
70°	2060	1731	1709
75°	1884	1598	1582
80°	1651	1436	1440
85°	1424	1307	1365

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2521 cd/sqm

TEST NUMBER: P1035365

CATALOG NUMBER: S125DIW-B375D770UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	1.1
10°-20°	123.8	3.0
20°-30°	184.1	4.4
30°-40°	218.1	5.3
40°-50°	225.5	5.4
50°-60°	207.7	5.0
60°-70°	167.9	4.0
70°-80°	112.3	2.7
80°-90°	59.6	1.4
90°-100°	97.5	2.4
100°-110°	216.6	5.2
110°-120°	342.6	8.3
120°-130°	438.9	10.6
130°-140°	485.6	11.7
140°-150°	472.8	11.4
150°-160°	396.5	9.6
160°-170°	263.6	6.4
170°-180°	92.2	2.2
0°-30°	351.6	8.5
0°-40°	569.7	13.7
0°-60°	1002.8	24.2
0°-90°	1342.6	32.4
90°-120°	656.7	15.8
90°-150°	2054.1	49.5
90°-180°	2806.0	67.6
0°-180°	4149.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	461	461	461	461	461	
5°	461	460	457	460	460	44
15°	440	441	438	440	438	124
25°	400	401	399	400	398	184
35°	346	349	348	349	349	217
45°	285	290	292	296	296	220
55°	219	226	234	239	240	196
65°	151	161	172	179	181	150
75°	83	95	109	118	121	88
85°	25	40	56	66	69	26
90°	8	28	49	63	69	8
95°	55	68	91	107	111	56
105°	177	188	206	220	225	189
115°	330	336	349	356	358	326
125°	479	483	493	498	500	429
135°	621	625	629	635	634	479
145°	752	754	757	759	759	470
155°	860	860	861	864	860	396
165°	935	934	934	937	933	264
175°	972	969	969	974	968	92
180°	974	974	974	974	974	

TEST NUMBER: P1035365

CATALOG NUMBER: S125DIW-B375D770UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	461.0	461.0	461.0	461.0	461.0
2.5°	462.3	461.4	458.3	461.4	461.0
5°	461.0	460.1	456.9	460.5	460.1
7.5°	457.8	457.4	454.2	457.4	456.9
10°	453.3	453.3	449.7	452.8	452.4
12.5°	447.0	447.4	444.7	447.0	445.6
15°	440.2	440.6	437.5	440.2	438.4
17.5°	431.6	432.5	429.3	431.6	430.2
20°	422.1	423.0	419.8	421.2	421.2
22.5°	411.3	413.1	409.4	411.3	409.9
25°	400.0	401.3	398.6	400.4	398.2
27.5°	387.8	389.6	386.4	387.8	386.9
30°	373.7	376.5	373.7	374.6	374.2
32.5°	361.1	363.4	361.5	362.4	362.0
35°	346.2	349.3	348.0	349.3	349.3
37.5°	331.7	334.4	334.0	335.8	335.3
40°	316.8	320.4	320.0	321.8	322.7
42.5°	300.5	305.5	306.9	309.1	309.1
45°	285.2	290.1	292.4	295.6	296.0
47.5°	269.4	273.9	277.5	282.0	282.9
50°	253.1	258.1	263.0	268.0	269.4
52.5°	235.9	242.2	248.6	254.0	254.9
55°	219.2	226.4	233.6	238.6	240.4
57.5°	202.0	210.6	218.7	224.2	225.5
60°	184.8	193.9	202.9	209.7	211.1
62.5°	168.1	177.2	187.1	194.8	196.6
65°	150.9	161.3	172.2	179.0	180.8
67.5°	135.1	145.1	155.9	164.1	166.3
70°	117.5	127.9	139.6	148.2	150.9
72.5°	100.3	111.2	124.3	133.8	135.6
75°	83.2	94.9	109.4	118.4	120.7
77.5°	66.4	80.0	93.5	103.5	105.3
80°	51.1	64.6	80.0	89.9	91.7
82.5°	37.1	51.5	67.3	76.8	80.4
85°	24.9	39.8	55.6	65.5	69.1
87.5°	15.8	30.3	45.6	56.0	59.2
90°	8.0	28.5	49.2	63.4	68.8
92.5°	29.0	45.9	68.7	83.9	88.6
95°	55.2	68.4	91.4	106.6	111.3
97.5°	81.2	92.9	118.4	132.5	136.3
100°	111.2	120.7	144.9	161.2	165.5
102.5°	143.3	155.7	173.5	190.1	195.1
105°	177.0	188.0	206.1	219.7	225.2
107.5°	213.6	223.7	240.6	252.0	254.7
110°	251.9	261.1	276.0	286.9	289.3

TEST NUMBER: P1035365

CATALOG NUMBER: S125DIW-B375D770UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.4	296.9	312.1	321.1	322.6
115°	329.5	335.8	349.0	356.4	358.4
117.5°	368.6	371.5	384.3	392.8	393.0
120°	405.0	410.0	421.2	428.9	428.6
122.5°	443.9	445.1	457.3	463.8	464.2
125°	478.8	482.9	492.7	498.4	499.9
127.5°	517.0	518.8	527.3	533.3	534.5
130°	551.2	554.5	562.3	567.9	568.6
132.5°	584.8	591.6	595.4	601.0	600.5
135°	621.2	625.3	629.2	635.1	634.4
137.5°	655.3	659.5	662.8	668.9	666.9
140°	687.5	691.3	694.0	700.5	698.5
142.5°	720.1	722.7	725.7	730.5	728.6
145°	752.0	754.5	756.8	759.1	758.6
147.5°	781.0	783.3	784.8	788.0	782.8
150°	810.6	809.9	812.9	812.9	811.9
152.5°	834.9	836.4	837.2	839.4	836.4
155°	859.9	859.9	860.7	863.7	859.9
157.5°	882.7	881.1	881.9	884.9	879.6
160°	902.4	900.1	900.8	903.9	900.1
162.5°	919.8	918.3	918.3	922.1	917.5
165°	935.0	933.5	934.2	937.2	932.7
167.5°	948.6	945.6	945.6	950.1	945.6
170°	959.2	956.2	956.2	960.8	955.4
172.5°	966.8	963.8	963.8	968.3	963.8
175°	972.1	969.1	969.1	973.6	968.3
177.5°	975.9	972.9	972.1	976.7	971.4
180°	974.4	974.4	974.4	974.4	974.4

(END OF REPORT)