

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: P1035359

Luminaire Tested: S125DIW-B375D770UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035359
REPORT IS A COMBINATION OF REPORTS P1003677 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D770UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

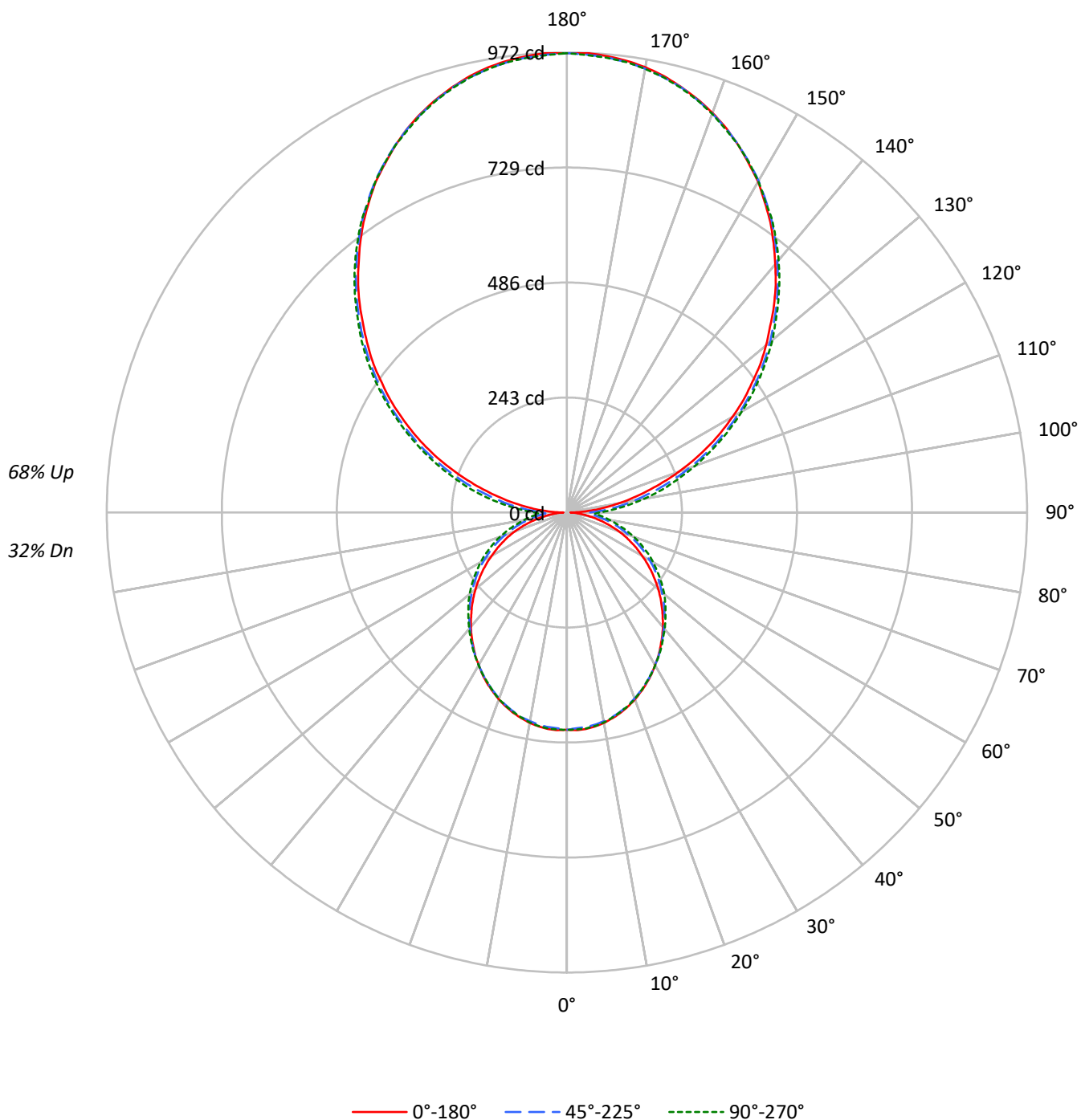
Lumens per Lamp: N/A
Luminaire Lumens: 4132.2 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 36.2
Input Voltage (V):
Input Current (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: P1035359

CATALOG NUMBER: S125DIW-B375D770UB30-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1035359

CATALOG NUMBER: S125DIW-B375D770UB30-4F0-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°	2941	2941	2941
5°	2946	2879	2886
10°	2924	2821	2813
15°	2888	2752	2722
20°	2840	2670	2632
25°	2783	2582	2523
30°	2714	2487	2423
35°	2650	2398	2332
40°	2585	2305	2240
45°	2511	2225	2157
50°	2439	2137	2082
55°	2354	2054	1996
60°	2261	1959	1907
65°	2163	1859	1806
70°	2051	1724	1702
75°	1875	1591	1576
80°	1645	1431	1435
85°	1418	1303	1361

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2511 cd/sqm

TEST NUMBER: P1035359

CATALOG NUMBER: S125DIW-B375D770UB30-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.4	1.1
10°-20°	123.3	3.0
20°-30°	183.4	4.4
30°-40°	217.2	5.3
40°-50°	224.5	5.4
50°-60°	206.8	5.0
60°-70°	167.2	4.0
70°-80°	111.9	2.7
80°-90°	59.4	1.4
90°-100°	97.1	2.4
100°-110°	215.8	5.2
110°-120°	341.2	8.3
120°-130°	437.2	10.6
130°-140°	483.7	11.7
140°-150°	470.9	11.4
150°-160°	394.9	9.6
160°-170°	262.5	6.4
170°-180°	91.9	2.2
0°-30°	350.1	8.5
0°-40°	567.3	13.7
0°-60°	998.6	24.2
0°-90°	1337.0	32.4
90°-120°	654.1	15.8
90°-150°	2045.9	49.5
90°-180°	2795.0	67.6
0°-180°	4132.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	459	458	455	459	458	44
15°	438	439	436	438	436	124
25°	398	400	397	399	396	183
35°	345	348	346	348	348	216
45°	284	289	291	294	295	219
55°	218	226	233	238	239	195
65°	150	161	172	178	180	149
75°	83	94	109	118	120	88
85°	25	40	55	65	69	26
90°	8	28	49	63	68	8
95°	55	68	91	106	111	56
105°	176	187	205	219	224	188
115°	328	334	348	355	357	325
125°	477	481	491	496	498	427
135°	619	623	627	633	632	477
145°	749	751	754	756	756	468
155°	856	856	857	860	856	394
165°	931	930	930	934	929	263
175°	968	965	965	970	964	92
180°	970	970	970	970	970	

TEST NUMBER: P1035359

CATALOG NUMBER: S125DIW-B375D770UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	459.0	459.0	459.0	459.0	459.0
2.5°	460.4	459.5	456.3	459.5	459.0
5°	459.0	458.1	455.0	458.6	458.1
7.5°	455.9	455.4	452.3	455.4	455.0
10°	451.4	451.4	447.8	450.9	450.5
12.5°	445.1	445.5	442.8	445.1	443.7
15°	438.3	438.8	435.6	438.3	436.5
17.5°	429.8	430.7	427.5	429.8	428.4
20°	420.3	421.2	418.1	419.4	419.4
22.5°	409.5	411.3	407.7	409.5	408.2
25°	398.3	399.6	396.9	398.7	396.5
27.5°	386.1	387.9	384.8	386.1	385.2
30°	372.2	374.9	372.2	373.1	372.6
32.5°	359.6	361.8	360.0	360.9	360.5
35°	344.7	347.9	346.5	347.9	347.9
37.5°	330.3	333.0	332.6	334.4	333.9
40°	315.5	319.1	318.6	320.4	321.3
42.5°	299.3	304.2	305.6	307.8	307.8
45°	284.0	288.9	291.2	294.3	294.8
47.5°	268.2	272.7	276.3	280.8	281.7
50°	252.0	257.0	261.9	266.9	268.2
52.5°	234.9	241.2	247.5	252.9	253.8
55°	218.3	225.5	232.7	237.6	239.4
57.5°	201.2	209.7	217.8	223.2	224.6
60°	184.1	193.1	202.1	208.8	210.2
62.5°	167.4	176.4	186.3	194.0	195.8
65°	150.3	160.7	171.5	178.2	180.0
67.5°	134.6	144.5	155.3	163.4	165.6
70°	117.0	127.4	139.1	147.6	150.3
72.5°	99.9	110.7	123.8	133.2	135.0
75°	82.8	94.5	108.9	117.9	120.2
77.5°	66.2	79.7	93.2	103.1	104.9
80°	50.9	64.4	79.7	89.6	91.4
82.5°	36.9	51.3	67.1	76.5	80.1
85°	24.8	39.6	55.4	65.3	68.9
87.5°	15.8	30.2	45.5	55.8	59.0
90°	8.0	28.4	49.0	63.2	68.5
92.5°	29.0	45.8	68.3	83.5	88.2
95°	55.0	68.2	91.1	106.2	110.8
97.5°	80.9	92.5	118.0	131.9	135.8
100°	110.7	120.1	144.3	160.6	164.9
102.5°	142.7	155.1	172.8	189.3	194.3
105°	176.3	187.3	205.3	218.8	224.2
107.5°	212.8	222.9	239.7	251.0	253.7
110°	250.9	260.1	275.0	285.7	288.2

TEST NUMBER: P1035359

CATALOG NUMBER: S125DIW-B375D770UB30-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	295.7	310.9	319.8	321.4
115°	328.2	334.4	347.6	355.0	356.9
117.5°	367.1	370.0	382.8	391.2	391.4
120°	403.3	408.4	419.6	427.2	426.8
122.5°	442.1	443.4	455.5	462.0	462.4
125°	476.8	481.0	490.7	496.4	497.9
127.5°	515.0	516.7	525.2	531.1	532.3
130°	548.9	552.2	560.0	565.6	566.4
132.5°	582.4	589.2	593.0	598.5	598.0
135°	618.7	622.8	626.7	632.6	631.7
137.5°	652.7	656.8	660.1	666.3	664.3
140°	684.7	688.5	691.2	697.7	695.7
142.5°	717.2	719.7	722.8	727.6	725.6
145°	748.9	751.4	753.7	756.0	755.5
147.5°	777.9	780.1	781.7	784.8	779.7
150°	807.3	806.6	809.6	809.6	808.6
152.5°	831.5	833.0	833.8	836.0	833.0
155°	856.4	856.4	857.2	860.2	856.4
157.5°	879.1	877.6	878.3	881.3	876.1
160°	898.7	896.5	897.2	900.2	896.5
162.5°	916.1	914.6	914.6	918.4	913.8
165°	931.2	929.7	930.4	933.5	928.9
167.5°	944.8	941.8	941.8	946.3	941.8
170°	955.4	952.3	952.3	956.9	951.6
172.5°	962.9	959.9	959.9	964.4	959.9
175°	968.2	965.2	965.2	969.7	964.4
177.5°	972.0	969.0	968.2	972.7	967.4
180°	970.5	970.5	970.5	970.5	970.5

(END OF REPORT)