

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: P1035353

Luminaire Tested: S125DIW-B375D770UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035353
REPORT IS A COMBINATION OF REPORTS P1003647 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B375D770UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

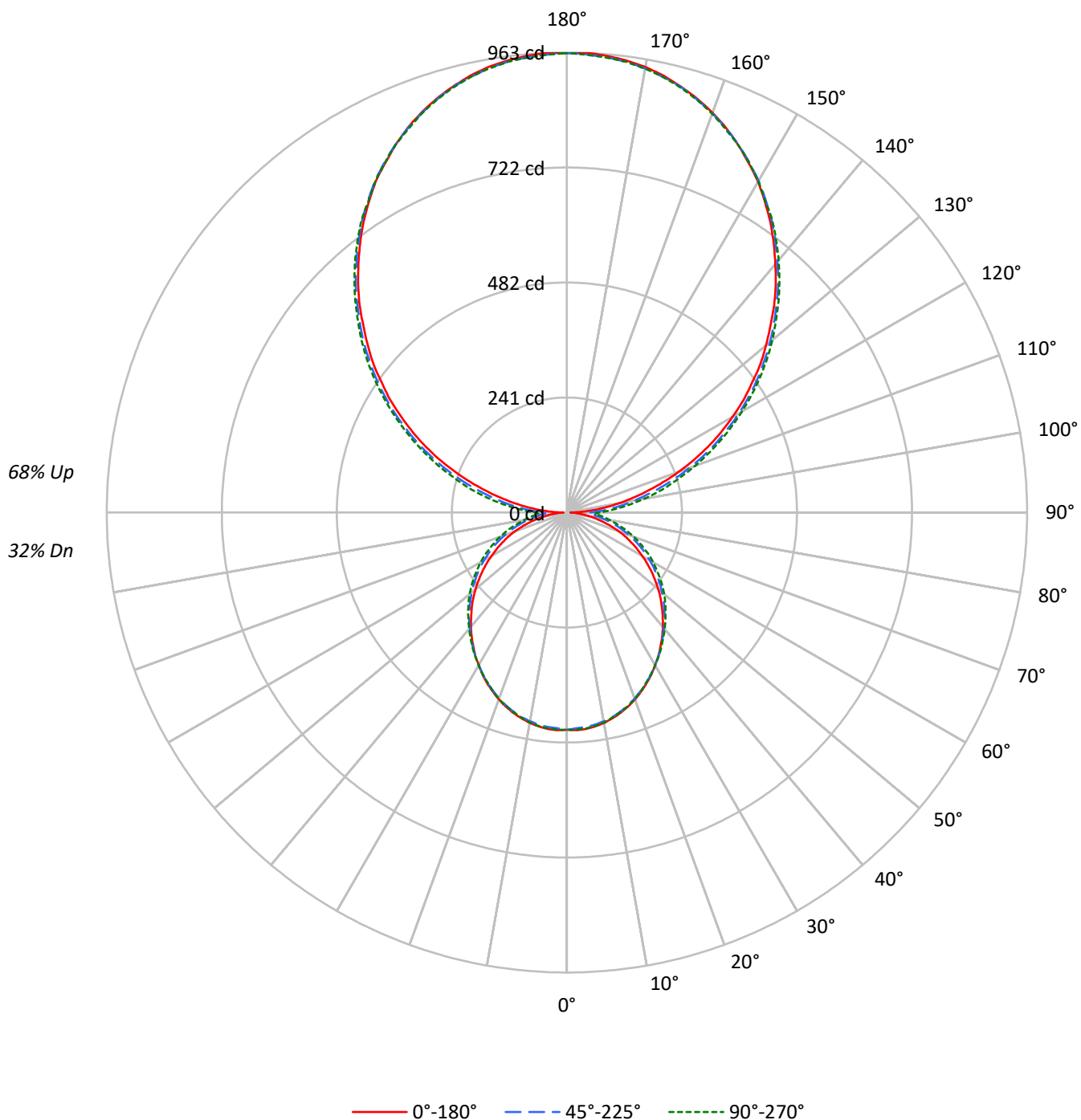
Lumens per Lamp: N/A
Luminaire Lumens: 4095.0 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1035353

CATALOG NUMBER: S125DIW-B375D770UB27-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



TEST NUMBER: P1035353

CATALOG NUMBER: S125DIW-B375D770UB27-4F0-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°	2914	2914	2914
5°	2919	2853	2860
10°	2897	2795	2787
15°	2862	2727	2697
20°	2814	2646	2608
25°	2757	2558	2500
30°	2690	2464	2401
35°	2626	2376	2311
40°	2561	2284	2220
45°	2488	2204	2138
50°	2417	2117	2064
55°	2333	2034	1977
60°	2240	1940	1889
65°	2143	1841	1790
70°	2032	1708	1686
75°	1857	1577	1561
80°	1629	1417	1421
85°	1401	1289	1347

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2488 cd/sqm

TEST NUMBER: P1035353

CATALOG NUMBER: S125DIW-B375D770UB27-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.0	1.1
10°-20°	122.2	3.0
20°-30°	181.7	4.4
30°-40°	215.2	5.3
40°-50°	222.5	5.4
50°-60°	204.9	5.0
60°-70°	165.7	4.0
70°-80°	110.8	2.7
80°-90°	58.8	1.4
90°-100°	96.3	2.4
100°-110°	213.8	5.2
110°-120°	338.2	8.3
120°-130°	433.3	10.6
130°-140°	479.3	11.7
140°-150°	466.8	11.4
150°-160°	391.4	9.6
160°-170°	260.2	6.4
170°-180°	91.1	2.2
0°-30°	346.9	8.5
0°-40°	562.1	13.7
0°-60°	989.5	24.2
0°-90°	1324.7	32.4
90°-120°	648.3	15.8
90°-150°	2027.6	49.5
90°-180°	2770.0	67.6
0°-180°	4095.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	455	455	455	455	455	
5°	455	454	451	454	454	43
15°	434	435	432	434	432	122
25°	395	396	393	395	393	182
35°	342	345	343	345	345	214
45°	281	286	288	292	292	217
55°	216	223	230	235	237	193
65°	149	159	170	177	178	148
75°	82	94	108	117	119	87
85°	24	39	55	65	68	26
90°	8	28	49	62	68	8
95°	54	68	90	105	110	55
105°	175	186	203	217	222	186
115°	325	331	344	352	354	322
125°	473	477	486	492	493	423
135°	613	617	621	627	626	473
145°	742	745	747	749	749	464
155°	849	849	850	853	849	391
165°	923	921	922	925	921	260
175°	960	957	957	961	956	91
180°	962	962	962	962	962	

TEST NUMBER: P1035353

CATALOG NUMBER: S125DIW-B375D770UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	454.8	454.8	454.8	454.8	454.8
2.5°	456.2	455.3	452.2	455.3	454.8
5°	454.8	453.9	450.8	454.4	453.9
7.5°	451.7	451.3	448.1	451.3	450.8
10°	447.3	447.3	443.7	446.8	446.4
12.5°	441.0	441.5	438.8	441.0	439.7
15°	434.3	434.8	431.6	434.3	432.5
17.5°	425.9	426.7	423.6	425.9	424.5
20°	416.5	417.4	414.3	415.6	415.6
22.5°	405.8	407.6	404.0	405.8	404.4
25°	394.6	396.0	393.3	395.1	392.9
27.5°	382.6	384.4	381.3	382.6	381.7
30°	368.8	371.4	368.8	369.7	369.2
32.5°	356.3	358.5	356.7	357.6	357.2
35°	341.6	344.7	343.4	344.7	344.7
37.5°	327.3	330.0	329.5	331.3	330.9
40°	312.6	316.2	315.7	317.5	318.4
42.5°	296.5	301.4	302.8	305.0	305.0
45°	281.4	286.3	288.5	291.6	292.1
47.5°	265.8	270.2	273.8	278.3	279.1
50°	249.7	254.6	259.5	264.4	265.8
52.5°	232.8	239.0	245.3	250.6	251.5
55°	216.3	223.4	230.5	235.4	237.2
57.5°	199.3	207.8	215.8	221.2	222.5
60°	182.4	191.3	200.2	206.9	208.2
62.5°	165.9	174.8	184.6	192.2	194.0
65°	148.9	159.2	169.9	176.6	178.4
67.5°	133.3	143.1	153.8	161.9	164.1
70°	115.9	126.2	137.8	146.3	148.9
72.5°	99.0	109.7	122.6	132.0	133.8
75°	82.0	93.6	107.9	116.8	119.1
77.5°	65.5	78.9	92.3	102.1	103.9
80°	50.4	63.8	78.9	88.7	90.5
82.5°	36.6	50.8	66.4	75.8	79.4
85°	24.5	39.2	54.8	64.7	68.2
87.5°	15.6	29.9	45.0	55.3	58.4
90°	7.8	28.1	48.6	62.5	67.9
92.5°	28.7	45.4	67.7	82.8	87.4
95°	54.5	67.6	90.2	105.3	109.9
97.5°	80.3	91.7	116.9	130.7	134.6
100°	109.7	119.1	143.0	159.2	163.4
102.5°	141.5	153.6	171.3	187.7	192.5
105°	174.7	185.5	203.4	216.8	222.2
107.5°	210.9	220.9	237.5	248.8	251.4
110°	248.6	257.8	272.5	283.2	285.6

TEST NUMBER: P1035353

CATALOG NUMBER: S125DIW-B375D770UB27-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	287.5	293.0	308.1	316.9	318.5
115°	325.3	331.4	344.5	351.8	353.7
117.5°	363.7	366.8	379.4	387.7	387.8
120°	399.7	404.8	415.8	423.4	423.1
122.5°	438.2	439.3	451.4	457.8	458.2
125°	472.6	476.6	486.4	492.0	493.4
127.5°	510.3	512.2	520.5	526.5	527.6
130°	544.0	547.3	555.0	560.6	561.3
132.5°	577.3	584.0	587.8	593.2	592.8
135°	613.2	617.2	621.1	626.9	626.1
137.5°	646.9	650.9	654.2	660.3	658.4
140°	678.6	682.3	685.1	691.5	689.5
142.5°	710.8	713.4	716.4	721.1	719.2
145°	742.2	744.8	747.0	749.2	748.8
147.5°	771.0	773.2	774.7	777.9	772.8
150°	800.2	799.4	802.4	802.4	801.3
152.5°	824.1	825.6	826.4	828.6	825.6
155°	848.8	848.8	849.6	852.6	848.8
157.5°	871.3	869.8	870.5	873.5	868.3
160°	890.8	888.5	889.3	892.3	888.5
162.5°	908.0	906.5	906.5	910.2	905.7
165°	922.9	921.4	922.2	925.2	920.7
167.5°	936.4	933.4	933.4	937.9	933.4
170°	946.9	943.9	943.9	948.4	943.2
172.5°	954.4	951.4	951.4	955.9	951.4
175°	959.6	956.6	956.6	961.1	955.9
177.5°	963.4	960.4	959.6	964.1	958.9
180°	961.9	961.9	961.9	961.9	961.9

(END OF REPORT)