

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: P1035865

Luminaire Tested: S125RDIW-B1270D770UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035865
REPORT IS A COMBINATION OF REPORTS P1006351 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1270D770UB40-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

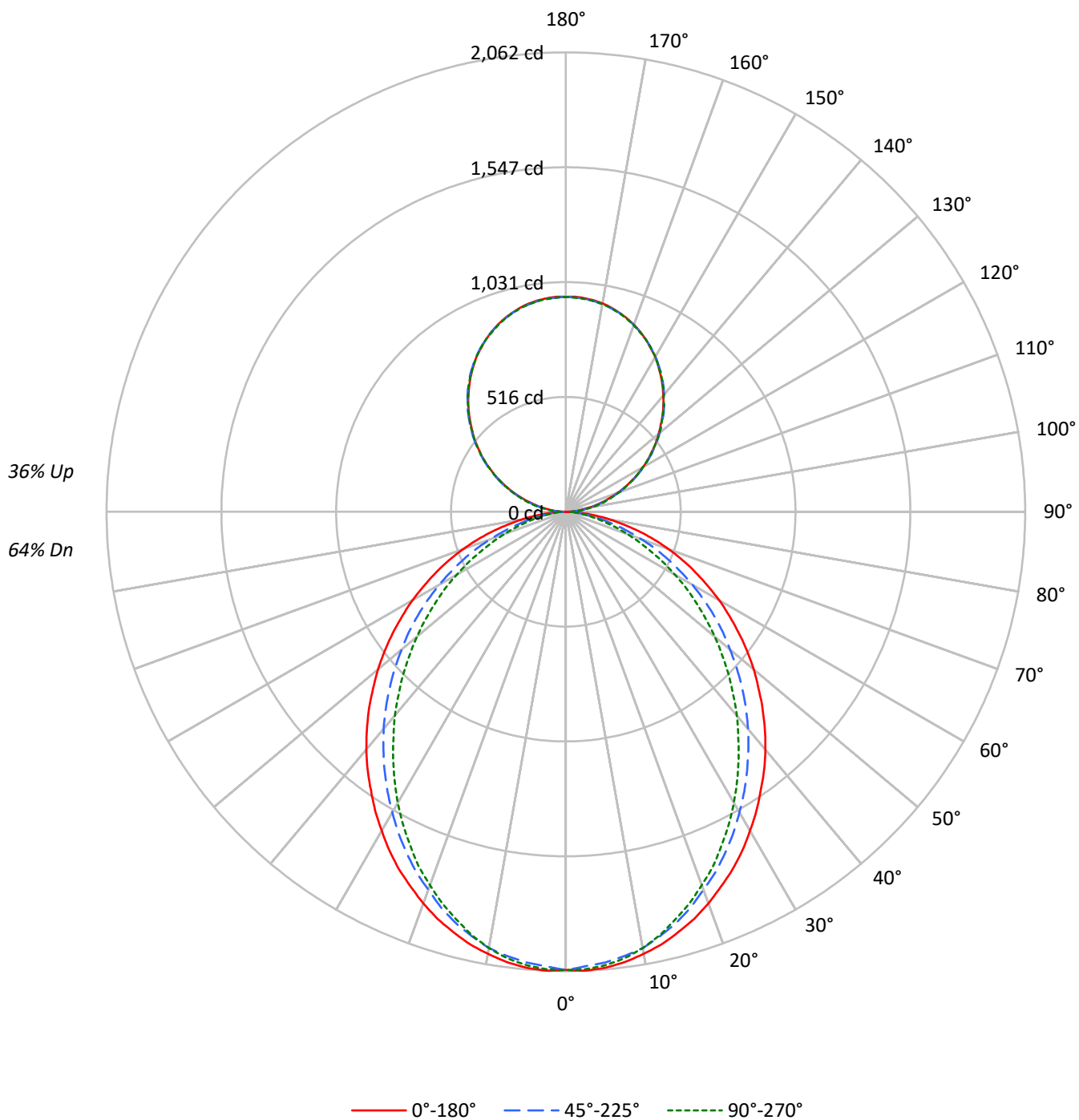
Lumens per Lamp: N/A
Luminaire Lumens: 7554.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84.5
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: P1035865

CATALOG NUMBER: S125RDIW-B1270D770UB40-4F0-XX-W2A-F1

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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69
1	101	97	93	90	95	91	88	85	81	78	76	71	69	67	62	60	59
2	92	85	79	74	87	80	75	70	71	67	63	63	59	57	55	52	50
3	85	75	68	62	79	71	64	59	63	58	53	56	52	48	49	46	43
4	78	67	59	53	73	63	56	50	56	50	46	50	45	42	44	40	37
5	71	60	51	45	67	56	49	43	50	44	40	45	40	36	39	36	33
6	66	54	45	40	62	51	43	38	45	39	35	41	36	32	36	32	29
7	61	49	40	35	57	46	39	34	41	35	31	37	32	28	33	29	26
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23
9	53	40	33	28	50	39	32	27	35	29	25	31	26	23	28	24	21
10	50	37	30	25	47	36	29	24	32	26	23	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13179	13179	13179
5°	13181	12851	12872
10°	13053	12527	12417
15°	12868	12074	11818
20°	12639	11528	11191
25°	12376	10996	10519
30°	12056	10411	9812
35°	11728	9816	9062
40°	11416	9205	8328
45°	11042	8546	7561
50°	10662	7846	6779
55°	10221	7158	5970
60°	9771	6369	5131
65°	9233	5489	4225
70°	8605	4468	3325
75°	7739	3359	2424
80°	6528	2176	1634
85°	4888	1169	921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11042 cd/sqm

TEST NUMBER: P1035865

CATALOG NUMBER: S125RDIW-B1270D770UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	2.6
10°-20°	541.0	7.2
20°-30°	784.5	10.4
30°-40°	893.8	11.8
40°-50°	871.1	11.5
50°-60°	733.1	9.7
60°-70°	513.8	6.8
70°-80°	263.4	3.5
80°-90°	67.2	0.9
90°-100°	64.2	0.8
100°-110°	190.6	2.5
110°-120°	323.2	4.3
120°-130°	425.5	5.6
130°-140°	476.8	6.3
140°-150°	467.4	6.2
150°-160°	392.6	5.2
160°-170°	261.0	3.5
170°-180°	91.3	1.2
0°-30°	1519.1	20.1
0°-40°	2412.9	31.9
0°-60°	4017.2	53.2
0°-90°	4861.5	64.4
90°-120°	578.0	7.7
90°-150°	1947.6	25.8
90°-180°	2692.0	35.6
0°-180°	7554.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2057	2057	2057	2057	2057	
5°	2054	2048	2031	2046	2043	195
15°	1953	1944	1911	1909	1895	551
25°	1771	1748	1690	1670	1653	815
35°	1526	1488	1418	1373	1352	955
45°	1249	1204	1119	1056	1033	963
55°	948	898	811	741	716	847
65°	642	589	506	444	421	635
75°	342	295	230	196	185	361
85°	86	58	50	48	47	94
90°	1	7	12	16	18	8
95°	49	50	58	63	65	51
105°	171	175	179	184	186	183
115°	324	327	328	327	327	320
125°	472	477	478	476	475	423
135°	614	619	619	619	616	473
145°	744	747	749	749	747	465
155°	851	851	852	855	851	392
165°	926	924	925	928	923	261
175°	962	960	960	964	959	91
180°	965	965	965	965	965	

TEST NUMBER: P1035865

CATALOG NUMBER: S125RDIW-B1270D770UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.0	2057.0	2057.0	2057.0	2057.0
2.5°	2061.7	2057.0	2041.5	2057.0	2055.5
5°	2053.9	2047.7	2030.6	2046.1	2043.0
7.5°	2038.4	2032.2	2012.0	2024.4	2021.3
10°	2015.1	2010.4	1988.7	1993.3	1988.7
12.5°	1988.7	1982.4	1951.4	1954.5	1946.7
15°	1952.9	1943.6	1911.0	1909.4	1895.4
17.5°	1915.6	1901.7	1862.8	1855.0	1844.2
20°	1870.6	1855.0	1805.3	1797.6	1783.6
22.5°	1820.9	1805.3	1752.5	1735.4	1724.5
25°	1771.1	1747.8	1690.4	1670.2	1653.1
27.5°	1715.2	1687.3	1626.7	1600.2	1583.2
30°	1653.1	1623.6	1558.3	1522.6	1508.6
32.5°	1592.5	1556.7	1489.9	1449.5	1430.9
35°	1525.7	1488.4	1418.5	1373.4	1351.7
37.5°	1462.0	1416.9	1345.5	1292.6	1270.9
40°	1393.6	1347.0	1272.4	1213.4	1194.7
42.5°	1322.1	1274.0	1196.3	1140.4	1110.9
45°	1249.1	1204.1	1118.6	1056.5	1033.2
47.5°	1173.0	1126.4	1040.9	977.2	950.8
50°	1101.5	1050.3	961.7	896.4	873.1
52.5°	1023.8	971.0	888.7	817.2	793.9
55°	947.7	898.0	811.0	741.1	716.2
57.5°	870.0	817.2	733.3	665.0	643.2
60°	795.5	741.1	657.2	588.8	565.5
62.5°	716.2	665.0	579.5	517.4	494.1
65°	641.7	588.8	506.5	444.3	421.0
67.5°	567.1	514.3	435.0	376.0	357.3
70°	490.9	438.1	360.4	312.3	293.6
72.5°	416.4	365.1	293.6	250.1	239.3
75°	341.8	295.2	229.9	195.8	184.9
77.5°	265.7	228.4	174.0	147.6	138.3
80°	202.0	164.7	121.2	107.2	104.1
82.5°	139.8	107.2	80.8	76.1	74.6
85°	85.5	57.5	49.7	48.2	46.6
87.5°	35.7	24.9	23.3	23.3	21.8
90°	0.8	6.8	12.0	15.8	18.0
92.5°	22.5	26.3	33.0	38.3	39.8
95°	48.8	50.3	57.8	63.1	64.6
97.5°	75.1	75.8	86.3	90.8	91.6
100°	105.1	105.1	114.9	121.6	123.1
102.5°	137.4	141.1	144.9	152.4	154.7
105°	171.2	174.9	179.4	183.9	186.2
107.5°	208.0	211.7	215.5	217.7	217.7
110°	246.3	250.0	252.3	254.5	253.8

TEST NUMBER: P1035865

CATALOG NUMBER: S125RDIW-B1270D770UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	285.3	286.8	289.8	290.5	289.0
115°	323.6	326.6	328.1	327.3	326.6
117.5°	362.6	363.4	364.9	365.6	362.6
120°	398.7	402.4	403.2	403.2	400.2
122.5°	437.7	438.4	440.7	439.9	437.7
125°	472.2	476.7	477.5	476.0	475.2
127.5°	510.5	512.8	513.5	512.8	511.3
130°	544.3	548.1	549.6	548.8	547.3
132.5°	578.1	584.8	584.1	583.3	581.1
135°	614.1	618.6	619.4	619.4	616.4
137.5°	647.9	652.4	653.9	654.7	650.9
140°	680.2	683.9	686.2	687.7	683.9
142.5°	712.5	715.5	718.5	719.2	715.5
145°	744.0	747.0	749.3	749.3	747.0
147.5°	773.3	775.5	777.0	779.3	773.3
150°	802.6	801.8	804.8	804.8	803.3
152.5°	826.6	828.1	828.8	831.1	828.1
155°	851.4	851.4	852.1	855.1	851.4
157.5°	873.9	872.4	873.1	876.1	870.9
160°	893.4	891.2	891.9	894.9	891.2
162.5°	910.7	909.2	909.2	912.9	908.4
165°	925.7	924.2	924.9	927.9	923.4
167.5°	939.2	936.2	936.2	940.7	936.2
170°	949.7	946.7	946.7	951.2	946.0
172.5°	957.2	954.2	954.2	958.7	954.2
175°	962.5	959.5	959.5	964.0	958.7
177.5°	966.2	963.2	962.5	967.0	961.7
180°	964.7	964.7	964.7	964.7	964.7

(END OF REPORT)