

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: P1035767

Luminaire Tested: S125RDIW-B1090D770UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035767
REPORT IS A COMBINATION OF REPORTS P1006131 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D770UB40-4F0-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

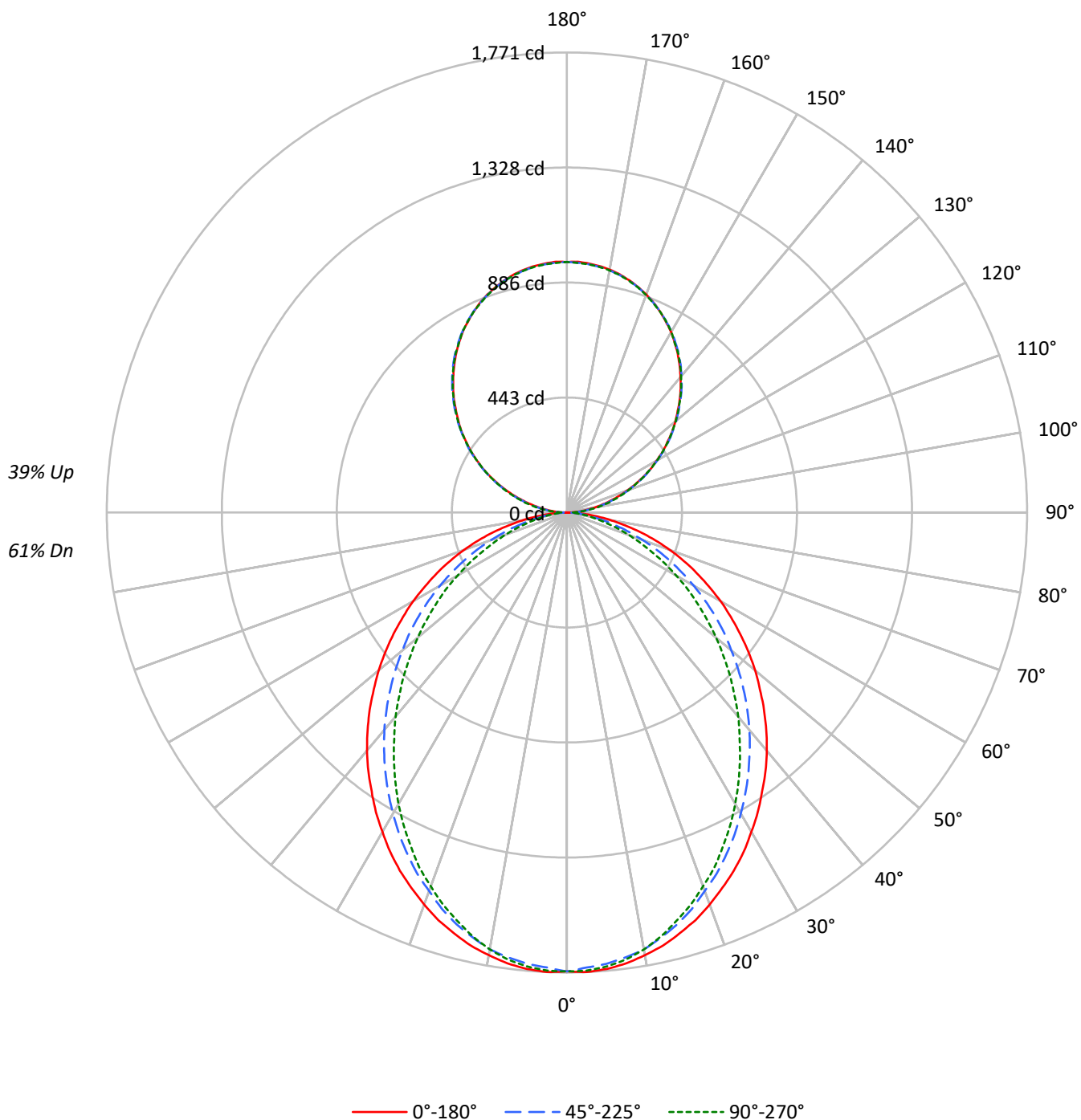
Lumens per Lamp: N/A
Luminaire Lumens: 6868.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70
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: P1035767

CATALOG NUMBER: S125RDIW-B1090D770UB40-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1035767

CATALOG NUMBER: S125RDIW-B1090D770UB40-4F0-XX-W2A-F1

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	100	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48
3	84	74	67	61	78	70	63	58	61	56	52	54	50	47	46	43	41
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	28
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	27	25
8	56	44	36	31	52	41	34	29	37	31	27	33	28	24	29	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11319	11319	11319
5°	11321	11037	11055
10°	11210	10759	10664
15°	11052	10369	10150
20°	10855	9901	9611
25°	10629	9444	9034
30°	10354	8941	8427
35°	10072	8431	7783
40°	9805	7906	7153
45°	9484	7339	6494
50°	9157	6739	5823
55°	8778	6147	5127
60°	8391	5470	4407
65°	7930	4714	3629
70°	7392	3838	2856
75°	6648	2886	2082
80°	5607	1869	1403
85°	4197	1004	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9484 cd/sqm

TEST NUMBER: P1035767

CATALOG NUMBER: S125RDIW-B1090D770UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.4
10°-20°	464.7	6.8
20°-30°	673.8	9.8
30°-40°	767.6	11.2
40°-50°	748.2	10.9
50°-60°	629.6	9.2
60°-70°	441.2	6.4
70°-80°	226.2	3.3
80°-90°	57.9	0.8
90°-100°	64.2	0.9
100°-110°	190.6	2.8
110°-120°	323.2	4.7
120°-130°	425.5	6.2
130°-140°	476.8	6.9
140°-150°	467.4	6.8
150°-160°	392.6	5.7
160°-170°	261.0	3.8
170°-180°	91.3	1.3
0°-30°	1304.7	19.0
0°-40°	2072.3	30.2
0°-60°	3450.1	50.2
0°-90°	4175.5	60.8
90°-120°	578.0	8.4
90°-150°	1947.6	28.4
90°-180°	2692.0	39.2
0°-180°	6868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1764	1759	1744	1757	1755	167
15°	1677	1669	1641	1640	1628	473
25°	1521	1501	1452	1434	1420	700
35°	1310	1278	1218	1180	1161	821
45°	1073	1034	961	907	887	827
55°	814	771	696	636	615	728
65°	551	506	435	382	362	546
75°	294	254	198	168	159	310
85°	73	49	43	41	40	80
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: P1035767

CATALOG NUMBER: S125RDIW-B1090D770UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.7	1766.7	1766.7	1766.7	1766.7
2.5°	1770.7	1766.7	1753.3	1766.7	1765.3
5°	1764.0	1758.7	1744.0	1757.3	1754.7
7.5°	1750.7	1745.3	1728.0	1738.6	1736.0
10°	1730.6	1726.6	1708.0	1712.0	1708.0
12.5°	1708.0	1702.6	1675.9	1678.6	1671.9
15°	1677.3	1669.3	1641.2	1639.9	1627.9
17.5°	1645.2	1633.2	1599.9	1593.2	1583.9
20°	1606.5	1593.2	1550.5	1543.8	1531.8
22.5°	1563.8	1550.5	1505.1	1490.5	1481.1
25°	1521.1	1501.1	1451.8	1434.4	1419.7
27.5°	1473.1	1449.1	1397.1	1374.4	1359.7
30°	1419.7	1394.4	1338.3	1307.7	1295.6
32.5°	1367.7	1337.0	1279.6	1244.9	1228.9
35°	1310.3	1278.3	1218.3	1179.6	1160.9
37.5°	1255.6	1216.9	1155.5	1110.2	1091.5
40°	1196.9	1156.9	1092.8	1042.1	1026.1
42.5°	1135.5	1094.2	1027.4	979.4	954.1
45°	1072.8	1034.1	960.7	907.4	887.3
47.5°	1007.4	967.4	894.0	839.3	816.6
50°	946.0	902.0	826.0	769.9	749.9
52.5°	879.3	834.0	763.2	701.9	681.8
55°	813.9	771.2	696.5	636.5	615.1
57.5°	747.2	701.9	629.8	571.1	552.4
60°	683.2	636.5	564.4	505.7	485.7
62.5°	615.1	571.1	497.7	444.3	424.3
65°	551.1	505.7	435.0	381.6	361.6
67.5°	487.0	441.7	373.6	322.9	306.9
70°	421.7	376.3	309.6	268.2	252.2
72.5°	357.6	313.6	252.2	214.8	205.5
75°	293.6	253.5	197.5	168.1	158.8
77.5°	228.2	196.1	149.4	126.8	118.8
80°	173.5	141.4	104.1	92.1	89.4
82.5°	120.1	92.1	69.4	65.4	64.0
85°	73.4	49.4	42.7	41.4	40.0
87.5°	30.7	21.3	20.0	20.0	18.7
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: P1035767

CATALOG NUMBER: S125RDIW-B1090D770UB40-4F0-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)