

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: P1034736

Luminaire Tested: S125RDIW-B1090D770UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034736
REPORT IS A COMBINATION OF REPORTS P1006111 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D770UB2750-4F0-XX-W2A-F_3000K
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

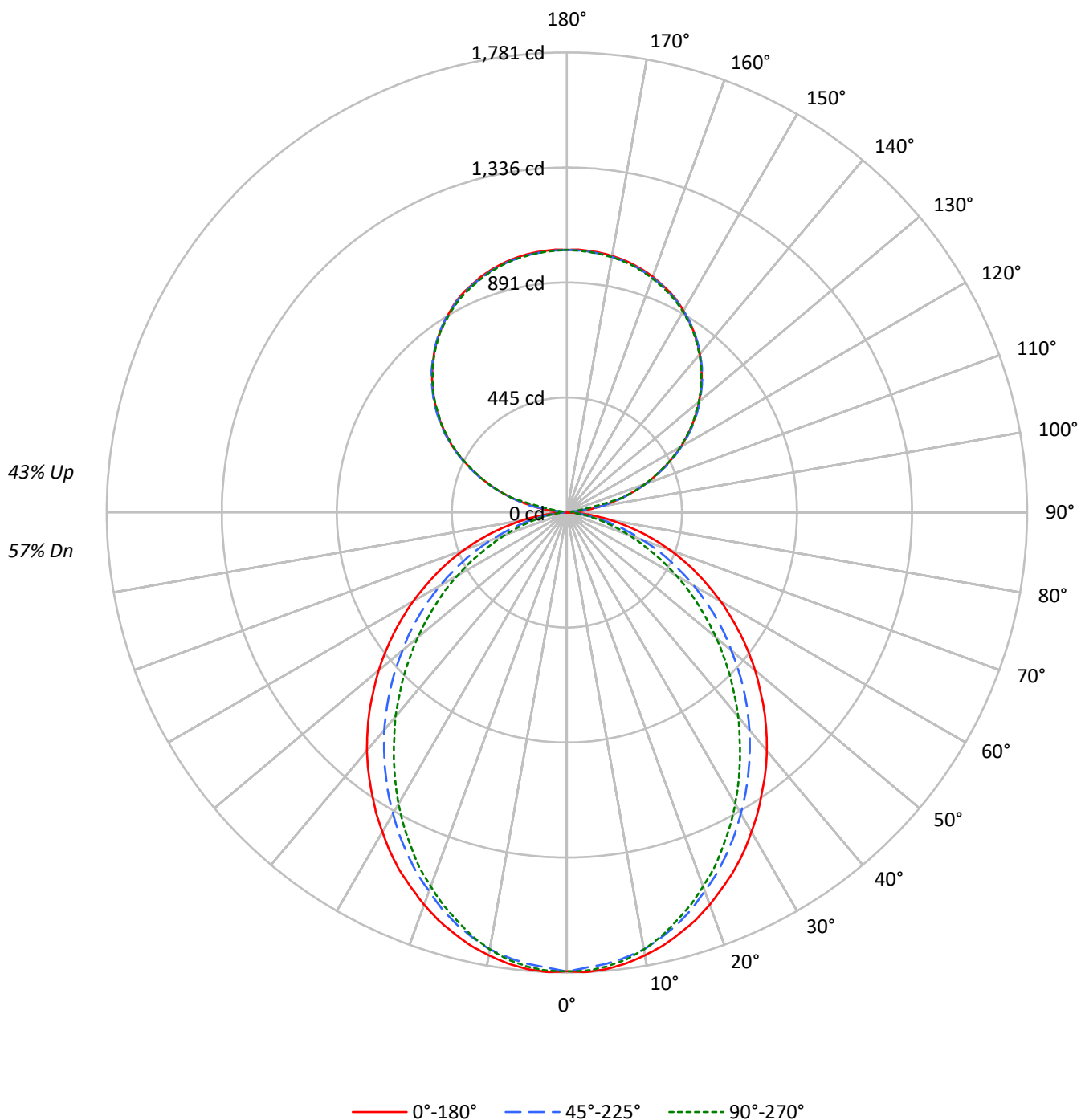
Lumens per Lamp: N/A
Luminaire Lumens: 7323.0 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	109	109	109	109	101	101	101	101	87	87	87	75	75	75	63	63	63
1	100	95	92	88	93	89	86	83	77	75	72	66	64	63	56	55	54
2	91	84	78	72	85	78	73	68	68	64	60	58	55	53	50	47	46
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	44	41	39
4	76	65	58	51	71	61	54	49	54	48	44	46	42	39	40	36	34
5	70	58	50	44	65	55	48	42	48	42	38	42	37	34	36	32	30
6	65	53	44	39	60	49	42	37	43	38	33	38	33	30	33	29	26
7	60	48	40	34	56	45	38	32	39	34	29	34	30	26	30	26	23
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	27	24	21
9	52	40	32	27	48	37	30	26	33	27	24	29	25	21	25	22	19
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11384	11384	11384
5°	11385	11100	11118
10°	11275	10821	10726
15°	11115	10429	10209
20°	10918	9958	9667
25°	10691	9498	9086
30°	10414	8992	8476
35°	10131	8479	7827
40°	9862	7951	7194
45°	9538	7382	6531
50°	9210	6778	5856
55°	8829	6182	5157
60°	8439	5502	4432
65°	7976	4741	3650
70°	7434	3859	2872
75°	6684	2902	2093
80°	5639	1880	1411
85°	4220	1009	796

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9538 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.2	2.3
10°-20°	467.3	6.4
20°-30°	677.6	9.3
30°-40°	772.0	10.5
40°-50°	752.5	10.3
50°-60°	633.3	8.6
60°-70°	443.8	6.1
70°-80°	227.5	3.1
80°-90°	58.3	0.8
90°-100°	34.5	0.5
100°-110°	229.5	3.1
110°-120°	413.3	5.6
120°-130°	530.4	7.2
130°-140°	570.5	7.8
140°-150°	535.5	7.3
150°-160°	433.1	5.9
160°-170°	280.1	3.8
170°-180°	96.6	1.3
0°-30°	1312.2	17.9
0°-40°	2084.2	28.5
0°-60°	3470.0	47.4
0°-90°	4199.5	57.3
90°-120°	677.3	9.2
90°-150°	2313.7	31.6
90°-180°	3124.0	42.7
0°-180°	7323.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1777	1777	1777	1777	1777	
5°	1774	1769	1754	1767	1765	168
15°	1687	1679	1651	1649	1637	476
25°	1530	1510	1460	1443	1428	704
35°	1318	1286	1225	1186	1168	825
45°	1079	1040	966	913	892	832
55°	819	776	700	640	619	732
65°	554	509	438	384	364	549
75°	295	255	199	169	160	312
85°	74	50	43	42	40	81
90°	1	7	12	16	18	6
95°	43	41	12	16	16	53
105°	222	225	225	225	224	235
115°	416	420	421	418	413	412
125°	592	597	597	594	592	529
135°	738	742	741	739	735	569
145°	856	857	857	858	853	535
155°	942	938	939	942	935	434
165°	994	990	990	995	989	281
175°	1017	1012	1013	1019	1012	97
180°	1017	1017	1017	1017	1017	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.8	1776.8	1776.8	1776.8	1776.8
2.5°	1780.8	1776.8	1763.4	1776.8	1775.5
5°	1774.1	1768.8	1754.0	1767.4	1764.7
7.5°	1760.7	1755.4	1737.9	1748.6	1746.0
10°	1740.6	1736.6	1717.8	1721.8	1717.8
12.5°	1717.8	1712.4	1685.6	1688.3	1681.5
15°	1686.9	1678.9	1650.7	1649.3	1637.3
17.5°	1654.7	1642.6	1609.1	1602.4	1593.0
20°	1615.8	1602.4	1559.4	1552.7	1540.6
22.5°	1572.8	1559.4	1513.8	1499.0	1489.6
25°	1529.9	1509.8	1460.1	1442.7	1427.9
27.5°	1481.6	1457.4	1405.1	1382.3	1367.5
30°	1427.9	1402.4	1346.0	1315.2	1303.1
32.5°	1375.6	1344.7	1287.0	1252.1	1236.0
35°	1317.9	1285.6	1225.3	1186.3	1167.5
37.5°	1262.8	1223.9	1162.2	1116.6	1097.8
40°	1203.8	1163.5	1099.1	1048.1	1032.0
42.5°	1142.1	1100.4	1033.3	985.0	959.5
45°	1079.0	1040.1	966.2	912.6	892.4
47.5°	1013.2	973.0	899.1	844.1	821.3
50°	951.5	907.2	830.7	774.3	754.2
52.5°	884.4	838.8	767.6	705.9	685.8
55°	818.6	775.7	700.5	640.1	618.7
57.5°	751.5	705.9	633.4	574.4	555.6
60°	687.1	640.1	567.7	508.6	488.5
62.5°	618.7	574.4	500.6	446.9	426.8
65°	554.3	508.6	437.5	383.8	363.7
67.5°	489.8	444.2	375.8	324.8	308.7
70°	424.1	378.4	311.3	269.7	253.6
72.5°	359.7	315.4	253.6	216.1	206.7
75°	295.2	255.0	198.6	169.1	159.7
77.5°	229.5	197.3	150.3	127.5	119.4
80°	174.5	142.3	104.7	92.6	89.9
82.5°	120.8	92.6	69.8	65.8	64.4
85°	73.8	49.7	42.9	41.6	40.3
87.5°	30.9	21.5	20.1	20.1	18.8
90°	0.8	6.8	12.1	15.8	18.1
92.5°	14.3	7.5	12.1	15.8	16.6
95°	43.0	40.7	12.1	15.8	15.8
97.5°	80.7	85.2	13.6	15.1	15.8
100°	125.9	128.1	131.2	18.8	15.8
102.5°	171.9	174.9	176.4	177.9	114.6
105°	221.6	224.6	224.6	224.6	223.9
107.5°	272.9	272.9	274.4	275.1	272.1
110°	322.6	322.6	324.1	321.9	322.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	369.3	371.6	372.4	369.3	367.8
115°	416.1	419.8	420.6	417.6	413.1
117.5°	465.1	465.1	468.1	463.6	462.1
120°	510.3	509.5	511.8	510.3	506.5
122.5°	550.2	554.0	554.8	553.3	548.7
125°	591.7	597.0	597.0	594.0	591.7
127.5°	631.7	635.4	634.7	633.2	627.1
130°	667.8	671.6	672.4	670.1	666.3
132.5°	704.0	708.5	706.3	706.3	702.5
135°	737.9	742.5	741.0	739.4	734.9
137.5°	769.6	774.1	772.6	772.6	768.8
140°	800.5	802.0	801.3	802.8	798.2
142.5°	828.4	829.1	830.7	830.7	826.1
145°	855.5	857.0	857.0	857.8	853.3
147.5°	879.6	879.6	880.4	881.2	875.9
150°	902.3	900.8	902.3	903.8	897.7
152.5°	924.1	920.3	921.9	923.4	918.1
155°	942.2	937.7	939.2	941.5	935.4
157.5°	956.5	954.3	954.3	956.5	950.5
160°	971.6	967.1	967.8	970.9	964.8
162.5°	983.7	979.1	979.9	984.4	977.6
165°	994.2	989.7	990.4	995.0	988.9
167.5°	1002.5	998.0	998.7	1004.0	997.2
170°	1009.3	1004.0	1004.8	1010.8	1004.0
172.5°	1013.8	1008.5	1010.0	1015.3	1008.5
175°	1016.8	1012.3	1013.1	1019.1	1012.3
177.5°	1019.1	1014.6	1015.3	1020.6	1014.6
180°	1016.8	1016.8	1016.8	1016.8	1016.8

(END OF REPORT)