

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: P1034726

Luminaire Tested: S125RDIW-B1090D470UB2750-4F0-XX-W2A-F_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034726
REPORT IS A COMBINATION OF REPORTS P1006067 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D470UB2750-4F0-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

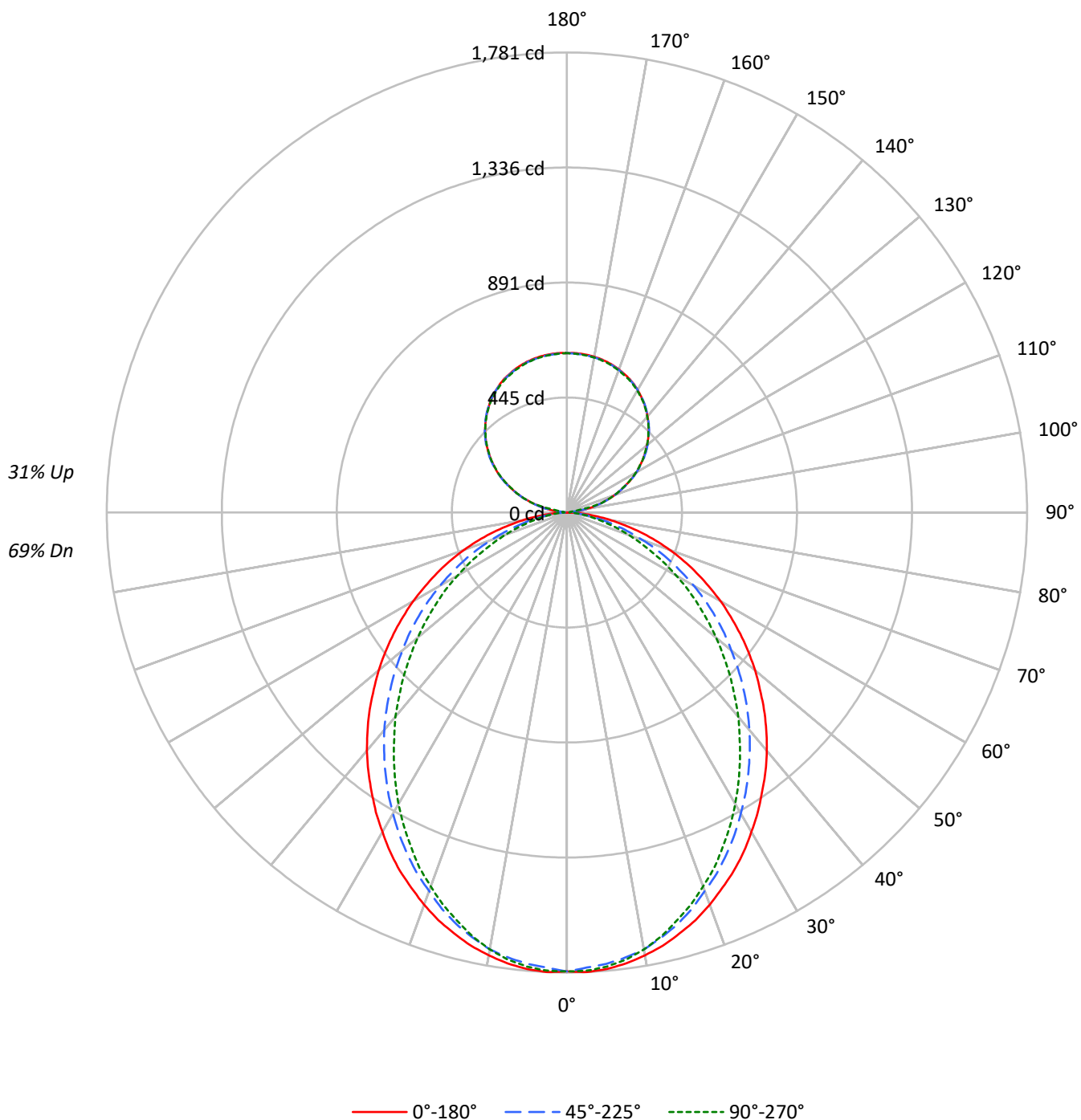
Lumens per Lamp: N/A
Luminaire Lumens: 6094.0 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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	50	30	10
RCR																				
0	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73			69
1	102	98	94	91	97	93	89	86	83	80	78	74	72	70	65	64	63			59
2	93	86	80	75	88	81	76	71	73	69	65	65	62	59	58	56	53			50
3	85	76	68	63	80	72	65	60	65	59	55	58	54	50	52	48	46			42
4	78	67	59	53	74	64	57	51	58	52	47	52	47	43	46	43	40			37
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	42	38	35			32
6	67	54	46	40	63	52	44	39	47	41	36	42	37	33	38	34	31			28
7	62	49	41	35	58	47	40	34	43	36	32	39	33	30	35	31	27			25
8	57	45	37	32	54	43	36	31	39	33	29	35	30	27	32	28	25			22
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	25	22			20
10	50	38	30	26	47	36	29	25	33	27	23	30	25	22	28	23	20			18

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	2.7
10°-20°	467.3	7.7
20°-30°	677.6	11.1
30°-40°	772.0	12.7
40°-50°	752.5	12.3
50°-60°	633.3	10.4
60°-70°	443.8	7.3
70°-80°	227.5	3.7
80°-90°	57.7	0.9
90°-100°	20.9	0.3
100°-110°	139.2	2.3
110°-120°	250.7	4.1
120°-130°	321.8	5.3
130°-140°	346.1	5.7
140°-150°	324.9	5.3
150°-160°	262.8	4.3
160°-170°	170.0	2.8
170°-180°	58.6	1.0
0°-30°	1312.2	21.5
0°-40°	2084.2	34.2
0°-60°	3470.0	56.9
0°-90°	4198.9	68.9
90°-120°	410.9	6.7
90°-150°	1403.8	23.0
90°-180°	1895.0	31.1
0°-180°	6094.0	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°	0	4	7	10	11	6
95°	26	25	7	10	10	32
105°	134	136	136	136	136	142
115°	252	255	255	253	251	250
125°	359	362	362	360	359	321
135°	448	450	450	449	446	345
145°	519	520	520	520	518	325
155°	572	569	570	571	568	263
165°	603	600	601	604	600	170
175°	617	614	615	618	614	59
180°	617	617	617	617	617	

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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°	0.5	4.1	7.3	9.6	11.0
92.5°	8.7	4.6	7.3	9.6	10.1
95°	26.1	24.7	7.3	9.6	9.6
97.5°	48.9	51.7	8.2	9.1	9.6
100°	76.4	77.7	79.6	11.4	9.6
102.5°	104.3	106.1	107.0	107.9	69.5
105°	134.5	136.3	136.3	136.3	135.8
107.5°	165.6	165.6	166.5	166.9	165.1
110°	195.7	195.7	196.6	195.3	195.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.1	225.5	225.9	224.1	223.2
115°	252.4	254.7	255.2	253.4	250.6
117.5°	282.2	282.2	284.0	281.3	280.3
120°	309.6	309.2	310.5	309.6	307.3
122.5°	333.8	336.1	336.6	335.7	332.9
125°	359.0	362.2	362.2	360.4	359.0
127.5°	383.2	385.5	385.1	384.2	380.5
130°	405.2	407.5	407.9	406.6	404.3
132.5°	427.1	429.9	428.5	428.5	426.2
135°	447.7	450.5	449.6	448.6	445.9
137.5°	466.9	469.7	468.8	468.8	466.5
140°	485.7	486.6	486.1	487.1	484.3
142.5°	502.6	503.1	504.0	504.0	501.2
145°	519.1	520.0	520.0	520.4	517.7
147.5°	533.7	533.7	534.2	534.6	531.4
150°	547.4	546.5	547.4	548.3	544.7
152.5°	560.7	558.4	559.3	560.2	557.0
155°	571.7	568.9	569.8	571.2	567.5
157.5°	580.3	579.0	579.0	580.3	576.7
160°	589.5	586.7	587.2	589.0	585.4
162.5°	596.8	594.1	594.5	597.3	593.2
165°	603.2	600.5	600.9	603.7	600.0
167.5°	608.2	605.5	606.0	609.2	605.0
170°	612.4	609.2	609.6	613.3	609.2
172.5°	615.1	611.9	612.8	616.0	611.9
175°	616.9	614.2	614.6	618.3	614.2
177.5°	618.3	615.6	616.0	619.2	615.6
180°	616.9	616.9	616.9	616.9	616.9

(END OF REPORT)