

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: P1035739

Luminaire Tested: S125RDIW-B1090D470UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035739
REPORT IS A COMBINATION OF REPORTS P1006075 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D470UB30-4F0-XX-W2A-F1
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

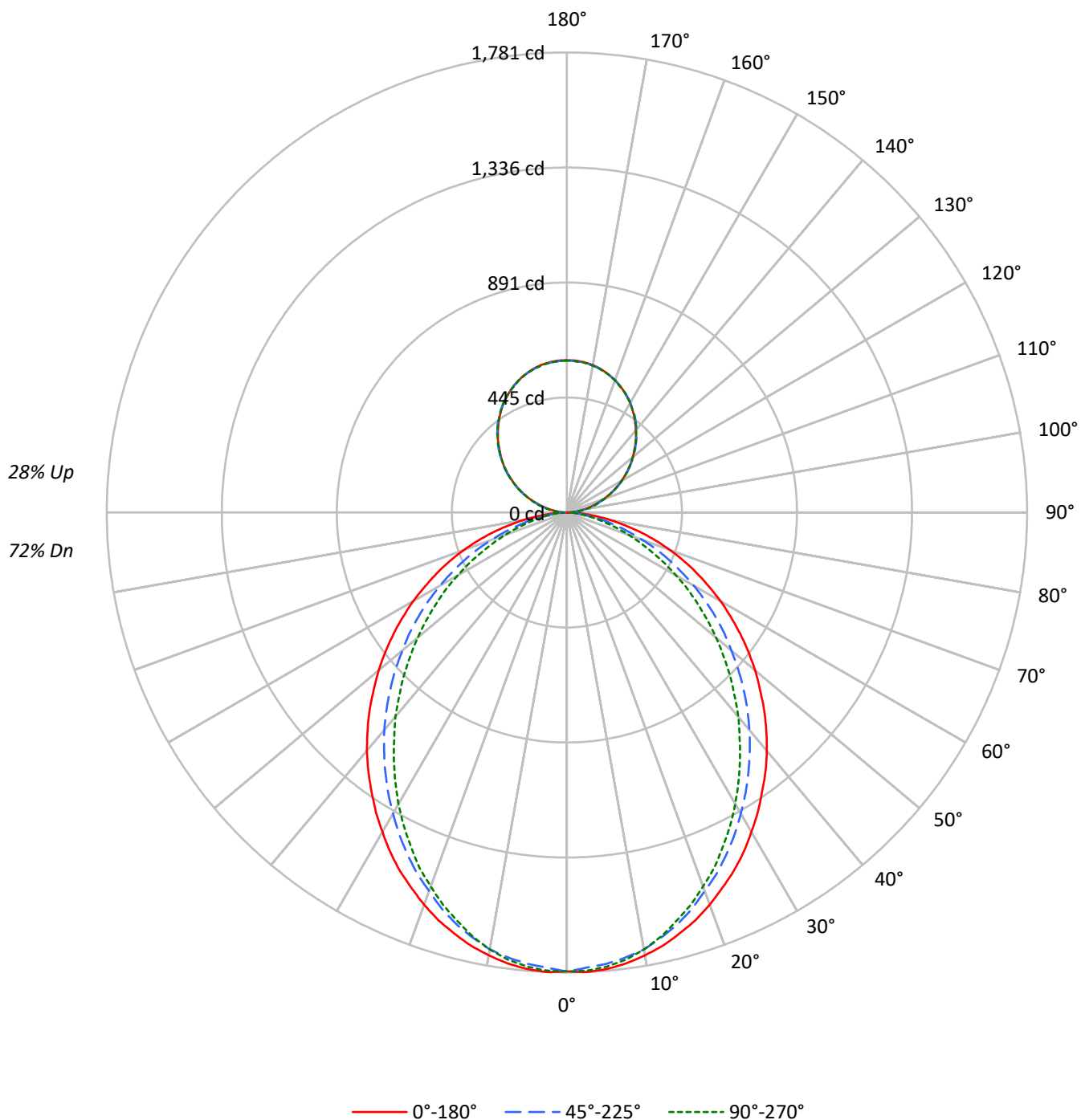
Lumens per Lamp: N/A
Luminaire Lumens: 5842.0 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	72
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	66	65	65	65	65	61
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55	55	55	55	52
3	86	76	69	63	81	73	66	61	66	60	56	59	55	52	54	50	47	47	47	47	44
4	79	68	60	54	75	65	57	52	59	53	48	53	48	45	48	44	41	41	41	41	38
5	73	61	52	46	69	58	50	45	53	47	42	48	43	39	43	39	36	36	36	36	33
6	67	55	46	40	63	52	45	39	48	41	37	44	38	34	40	35	32	32	32	32	29
7	62	50	41	36	59	48	40	35	43	37	33	40	34	30	36	32	28	28	28	28	26
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	26	26	26	26	23
9	54	42	34	29	51	40	33	28	37	31	26	34	28	25	31	26	23	23	23	23	21
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	29	24	21	21	21	21	19

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	2.9
10°-20°	467.3	8.0
20°-30°	677.6	11.6
30°-40°	772.0	13.2
40°-50°	752.5	12.9
50°-60°	633.3	10.8
60°-70°	443.8	7.6
70°-80°	227.5	3.9
80°-90°	57.7	1.0
90°-100°	39.1	0.7
100°-110°	116.3	2.0
110°-120°	197.2	3.4
120°-130°	259.7	4.4
130°-140°	291.0	5.0
140°-150°	285.2	4.9
150°-160°	239.6	4.1
160°-170°	159.2	2.7
170°-180°	55.7	1.0
0°-30°	1312.2	22.5
0°-40°	2084.2	35.7
0°-60°	3470.0	59.4
0°-90°	4198.9	71.9
90°-120°	352.7	6.0
90°-150°	1188.5	20.3
90°-180°	1643.0	28.1
0°-180°	5842.0	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°	30	31	35	38	39	31
105°	104	107	110	112	114	111
115°	198	199	200	200	199	195
125°	288	291	291	290	290	258
135°	375	378	378	378	376	289
145°	454	456	457	457	456	284
155°	520	520	520	522	520	239
165°	565	564	564	566	564	159
175°	587	586	586	588	585	56
180°	589	589	589	589	589	

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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°	13.7	16.0	20.2	23.4	24.3
95°	29.8	30.7	35.3	38.5	39.4
97.5°	45.8	46.3	52.7	55.4	55.9
100°	64.1	64.1	70.1	74.2	75.1
102.5°	83.8	86.1	88.4	93.0	94.4
105°	104.5	106.7	109.5	112.2	113.6
107.5°	126.9	129.2	131.5	132.9	132.9
110°	150.3	152.6	153.9	155.3	154.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.1	175.0	176.8	177.3	176.4
115°	197.5	199.3	200.2	199.8	199.3
117.5°	221.3	221.7	222.7	223.1	221.3
120°	243.3	245.6	246.0	246.0	244.2
122.5°	267.1	267.6	268.9	268.5	267.1
125°	288.2	290.9	291.4	290.5	290.0
127.5°	311.5	312.9	313.4	312.9	312.0
130°	332.2	334.5	335.4	334.9	334.0
132.5°	352.8	356.9	356.4	356.0	354.6
135°	374.8	377.5	378.0	378.0	376.1
137.5°	395.4	398.1	399.1	399.5	397.2
140°	415.1	417.4	418.8	419.7	417.4
142.5°	434.8	436.6	438.5	438.9	436.6
145°	454.0	455.9	457.2	457.2	455.9
147.5°	471.9	473.3	474.2	475.6	471.9
150°	489.8	489.3	491.1	491.1	490.2
152.5°	504.4	505.3	505.8	507.2	505.3
155°	519.5	519.5	520.0	521.8	519.5
157.5°	533.3	532.4	532.8	534.7	531.5
160°	545.2	543.8	544.3	546.1	543.8
162.5°	555.7	554.8	554.8	557.1	554.4
165°	564.9	564.0	564.4	566.3	563.5
167.5°	573.1	571.3	571.3	574.1	571.3
170°	579.6	577.7	577.7	580.5	577.3
172.5°	584.1	582.3	582.3	585.1	582.3
175°	587.4	585.5	585.5	588.3	585.1
177.5°	589.6	587.8	587.4	590.1	586.9
180°	588.7	588.7	588.7	588.7	588.7

(END OF REPORT)