

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: P1032321

Luminaire Tested: S123RDIW-B560D1535UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032321
REPORT IS A COMBINATION OF REPORTS P994497 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D1535UB35-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

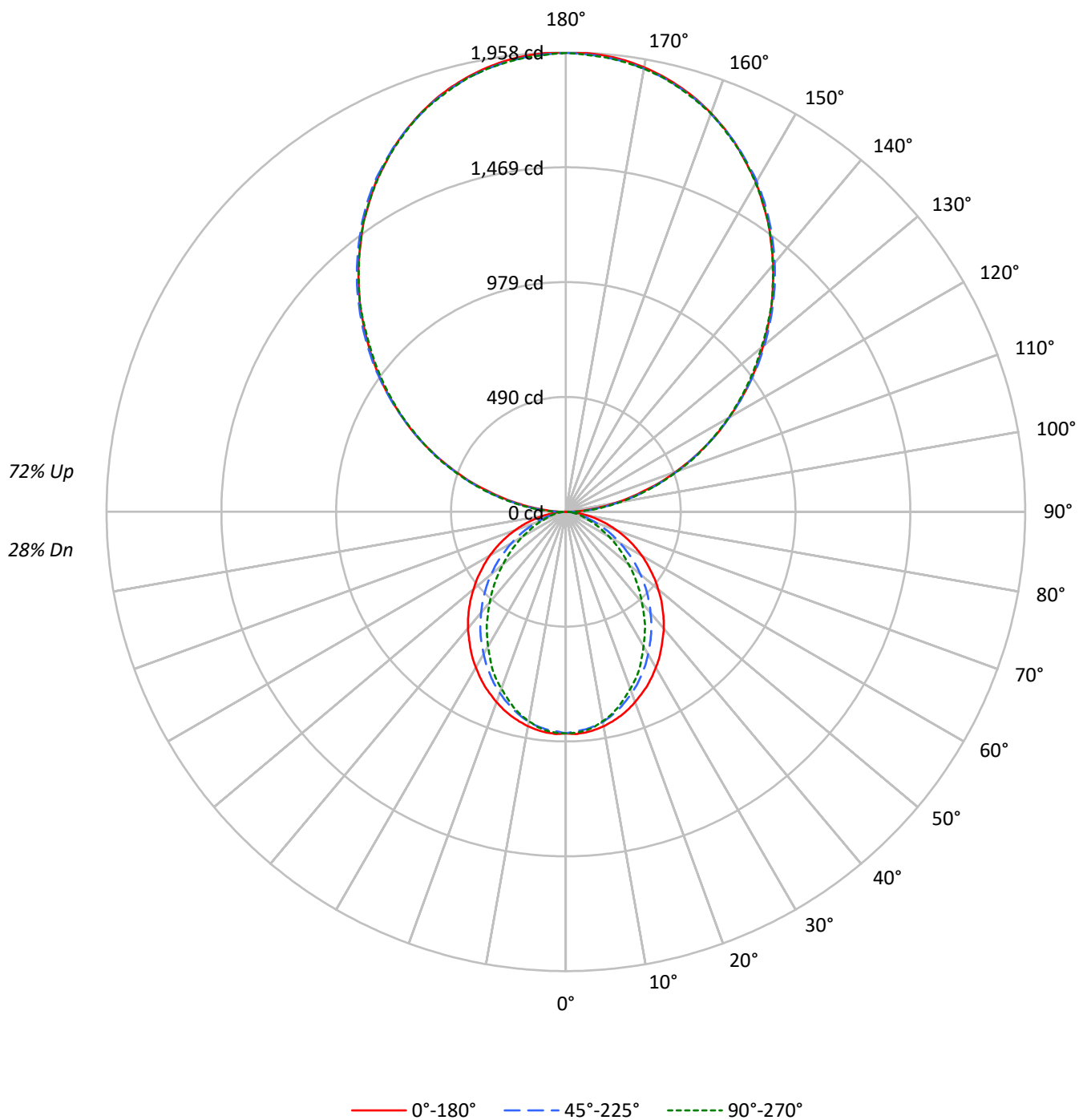
Lumens per Lamp: N/A
Luminaire Lumens: 7558.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 76.2
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	89	85	82	83	80	77	74	63	61	59	47	46	44	32	32	31
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	29	27	26
3	77	69	62	56	69	62	56	51	49	45	41	37	34	32	25	24	23
4	71	61	53	47	63	55	48	43	43	39	35	33	30	27	23	21	20
5	65	54	46	41	58	49	42	37	39	34	30	29	26	24	21	19	17
6	60	48	41	35	53	44	37	32	35	30	26	26	23	21	19	17	15
7	55	44	36	31	49	39	33	28	31	27	23	24	21	18	17	15	13
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12
9	48	36	29	24	43	33	26	22	26	22	18	20	17	15	15	12	11
10	44	33	26	21	40	30	24	20	24	19	16	19	15	13	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10168	10168	10168
5°	10184	9808	9781
10°	10104	9440	9253
15°	9972	8983	8675
20°	9801	8487	8028
25°	9623	7972	7415
30°	9396	7425	6691
35°	9161	6886	6032
40°	8940	6301	5303
45°	8658	5730	4648
50°	8347	5119	3970
55°	8023	4466	3349
60°	7715	3796	2718
65°	7315	3108	2122
70°	6814	2351	1516
75°	6090	1592	1201
80°	5201	1107	842
85°	3900	599	441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	1.2
10°-20°	247.0	3.3
20°-30°	355.7	4.7
30°-40°	400.5	5.3
40°-50°	383.1	5.1
50°-60°	313.6	4.1
60°-70°	211.5	2.8
70°-80°	106.1	1.4
80°-90°	31.9	0.4
90°-100°	125.9	1.7
100°-110°	381.1	5.0
110°-120°	648.8	8.6
120°-130°	853.5	11.3
130°-140°	959.4	12.7
140°-150°	943.2	12.5
150°-160°	794.1	10.5
160°-170°	528.7	7.0
170°-180°	185.1	2.4
0°-30°	691.5	9.1
0°-40°	1092.0	14.4
0°-60°	1788.8	23.7
0°-90°	2138.1	28.3
90°-120°	1155.8	15.3
90°-150°	3912.0	51.8
90°-180°	5420.0	71.7
0°-180°	7558.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	945	941	932	938	937	90
15°	901	892	871	867	862	254
25°	820	801	765	749	741	377
35°	709	682	634	601	588	444
45°	583	548	490	446	428	450
55°	443	405	340	296	280	397
65°	303	260	201	163	155	299
75°	160	123	81	74	72	171
85°	41	24	22	20	20	44
90°	2	17	37	43	46	9
95°	91	101	114	120	120	100
105°	346	349	363	363	366	370
115°	653	658	655	656	655	646
125°	956	960	957	951	945	852
135°	1240	1249	1248	1242	1238	955
145°	1504	1507	1512	1510	1504	940
155°	1722	1722	1724	1730	1719	793
165°	1876	1872	1872	1881	1870	529
175°	1951	1945	1945	1954	1944	185
180°	1956	1956	1956	1956	1956	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.6	944.6	944.6	944.6	944.6
2.5°	948.4	945.4	936.2	944.6	943.1
5°	944.6	940.8	931.6	938.5	936.9
7.5°	937.7	933.9	922.4	927.0	924.7
10°	928.5	923.1	909.4	910.1	906.3
12.5°	915.5	909.4	891.7	891.0	886.4
15°	900.9	892.5	871.0	867.2	861.9
17.5°	883.3	874.1	847.3	839.6	832.0
20°	863.4	851.1	822.0	812.1	802.9
22.5°	841.2	826.6	795.2	782.2	773.8
25°	819.7	800.6	765.3	749.2	740.8
27.5°	793.7	773.0	734.7	713.2	700.2
30°	766.9	743.9	701.0	674.9	662.7
32.5°	740.0	713.2	667.3	638.2	625.1
35°	709.4	681.8	634.3	601.4	587.6
37.5°	678.8	648.9	599.1	562.3	545.5
40°	649.6	615.9	561.5	521.7	504.1
42.5°	616.7	583.0	526.3	481.9	466.6
45°	583.0	548.5	489.5	445.9	427.5
47.5°	550.1	511.7	453.5	406.0	389.9
50°	513.3	477.3	415.2	367.7	350.1
52.5°	480.3	440.5	379.2	329.4	314.1
55°	442.8	405.3	340.1	295.7	280.4
57.5°	409.1	368.5	302.6	260.5	247.4
60°	373.9	331.7	268.1	226.8	213.7
62.5°	338.6	296.5	232.9	194.6	180.8
65°	302.6	260.5	200.7	163.2	154.8
67.5°	266.6	223.7	165.5	137.1	127.9
70°	231.4	190.0	136.4	109.6	101.1
72.5°	196.1	155.5	108.0	87.3	85.0
75°	160.1	123.3	81.2	73.5	72.0
77.5°	127.2	93.5	63.6	59.0	57.5
80°	95.8	64.4	48.3	46.0	44.4
82.5°	65.9	39.8	34.5	32.2	32.2
85°	40.6	23.7	21.5	19.9	19.9
87.5°	18.4	10.0	10.0	9.2	8.4
90°	1.5	16.9	36.9	43.0	46.1
92.5°	46.1	55.3	64.5	69.1	66.1
95°	90.7	101.4	113.7	119.9	119.9
97.5°	149.0	156.7	165.9	173.6	172.1
100°	209.0	218.2	225.9	230.5	233.6
102.5°	278.1	282.7	293.5	298.1	296.6
105°	345.7	348.8	362.6	362.6	365.7
107.5°	425.6	427.2	433.3	437.9	436.4
110°	499.4	502.5	505.5	511.7	508.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	576.2	577.7	577.7	585.4	585.4
115°	653.0	657.7	654.6	656.1	654.6
117.5°	731.4	732.9	729.9	729.9	725.3
120°	803.6	812.8	805.2	803.6	800.6
122.5°	878.9	885.1	882.0	877.4	872.8
125°	955.7	960.4	957.3	951.1	945.0
127.5°	1026.4	1035.6	1032.6	1023.4	1017.2
130°	1097.1	1109.4	1104.8	1098.6	1087.9
132.5°	1167.8	1180.1	1177.0	1169.3	1161.6
135°	1240.0	1249.2	1247.7	1241.5	1238.5
137.5°	1306.1	1313.8	1318.4	1310.7	1306.1
140°	1375.2	1382.9	1384.4	1382.9	1372.2
142.5°	1438.2	1445.9	1449.0	1447.4	1439.8
145°	1504.3	1507.4	1512.0	1510.4	1504.3
147.5°	1561.2	1567.3	1571.9	1571.9	1562.7
150°	1621.1	1624.2	1627.2	1627.2	1618.0
152.5°	1670.3	1674.9	1676.4	1679.5	1671.8
155°	1722.5	1722.5	1724.0	1730.2	1719.4
157.5°	1767.1	1765.5	1767.1	1773.2	1764.0
160°	1808.5	1805.5	1805.5	1813.2	1807.0
162.5°	1845.4	1840.8	1842.3	1850.0	1839.3
165°	1876.2	1871.5	1871.5	1880.8	1870.0
167.5°	1902.3	1896.1	1897.7	1906.9	1897.7
170°	1923.8	1917.6	1917.6	1928.4	1917.6
172.5°	1940.7	1934.5	1934.5	1943.8	1933.0
175°	1951.4	1945.3	1945.3	1954.5	1943.8
177.5°	1957.6	1951.4	1951.4	1960.7	1949.9
180°	1956.1	1956.1	1956.1	1956.1	1956.1

(END OF REPORT)