

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: P1032317

Luminaire Tested: S123RDIW-B560D1535UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032317
REPORT IS A COMBINATION OF REPORTS P994491 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D1535UB30-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

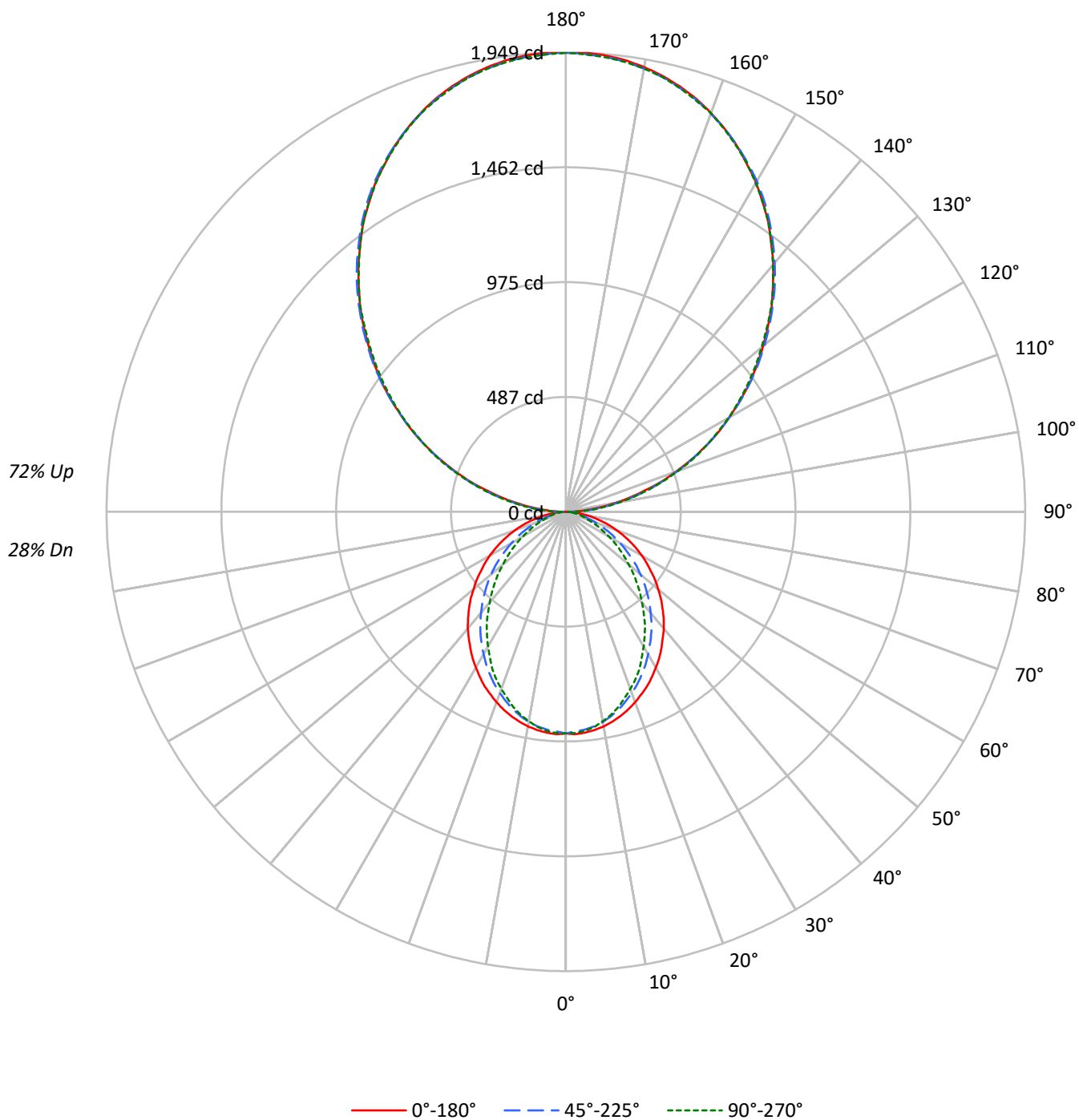
Lumens per Lamp: N/A
Luminaire Lumens: 7526.0 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	10125	10125	10125
5°	10141	9766	9740
10°	10061	9399	9214
15°	9930	8946	8638
20°	9759	8451	7994
25°	9583	7939	7384
30°	9356	7393	6663
35°	9123	6857	6006
40°	8903	6275	5281
45°	8621	5706	4629
50°	8311	5098	3953
55°	7989	4447	3335
60°	7682	3780	2706
65°	7284	3096	2113
70°	6785	2341	1510
75°	6063	1586	1196
80°	5179	1103	838
85°	3881	596	439

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8621 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.4	1.2
10°-20°	246.0	3.3
20°-30°	354.2	4.7
30°-40°	398.8	5.3
40°-50°	381.5	5.1
50°-60°	312.3	4.1
60°-70°	210.6	2.8
70°-80°	105.6	1.4
80°-90°	31.7	0.4
90°-100°	125.4	1.7
100°-110°	379.5	5.0
110°-120°	646.1	8.6
120°-130°	849.9	11.3
130°-140°	955.3	12.7
140°-150°	939.2	12.5
150°-160°	790.7	10.5
160°-170°	526.4	7.0
170°-180°	184.3	2.4
0°-30°	688.6	9.1
0°-40°	1087.4	14.4
0°-60°	1781.2	23.7
0°-90°	2129.1	28.3
90°-120°	1150.9	15.3
90°-150°	3895.4	51.8
90°-180°	5397.0	71.7
0°-180°	7526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	941	937	928	934	933	89
15°	897	889	867	864	858	253
25°	816	797	762	746	738	375
35°	706	679	632	599	585	442
45°	580	546	488	444	426	448
55°	441	404	339	294	279	395
65°	301	259	200	162	154	298
75°	159	123	81	73	72	170
85°	40	24	21	20	20	44
90°	2	17	37	43	46	9
95°	90	101	113	119	119	99
105°	344	347	361	361	364	369
115°	650	655	652	653	652	644
125°	952	956	953	947	941	849
135°	1235	1244	1242	1236	1233	951
145°	1498	1501	1506	1504	1498	936
155°	1715	1715	1717	1723	1712	790
165°	1868	1864	1864	1873	1862	527
175°	1943	1937	1937	1946	1936	185
180°	1948	1948	1948	1948	1948	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	940.6	940.6	940.6	940.6	940.6
2.5°	944.4	941.4	932.2	940.6	939.1
5°	940.6	936.8	927.6	934.5	933.0
7.5°	933.7	929.9	918.5	923.1	920.8
10°	924.6	919.2	905.5	906.3	902.5
12.5°	911.6	905.5	888.0	887.2	882.6
15°	897.1	888.7	867.4	863.6	858.2
17.5°	879.6	870.4	843.7	836.1	828.5
20°	859.7	847.5	818.5	808.6	799.5
22.5°	837.6	823.1	791.8	778.9	770.5
25°	816.3	797.2	762.1	746.1	737.7
27.5°	790.3	769.7	731.6	710.2	697.3
30°	763.6	740.7	698.0	672.1	659.9
32.5°	736.9	710.2	664.5	635.5	622.5
35°	706.4	678.9	631.6	598.8	585.1
37.5°	675.9	646.1	596.6	559.9	543.2
40°	646.9	613.3	559.2	519.5	502.0
42.5°	614.1	580.5	524.1	479.8	464.6
45°	580.5	546.2	487.5	444.0	425.7
47.5°	547.7	509.6	451.6	404.3	388.3
50°	511.1	475.3	413.5	366.2	348.6
52.5°	478.3	438.6	377.6	328.0	312.8
55°	440.9	403.6	338.7	294.5	279.2
57.5°	407.4	366.9	301.3	259.4	246.4
60°	372.3	330.3	267.0	225.8	212.8
62.5°	337.2	295.2	231.9	193.8	180.0
65°	301.3	259.4	199.9	162.5	154.1
67.5°	265.5	222.8	164.8	136.6	127.4
70°	230.4	189.2	135.8	109.1	100.7
72.5°	195.3	154.9	107.6	87.0	84.7
75°	159.4	122.8	80.9	73.2	71.7
77.5°	126.6	93.1	63.3	58.7	57.2
80°	95.4	64.1	48.1	45.8	44.2
82.5°	65.6	39.7	34.3	32.0	32.0
85°	40.4	23.6	21.4	19.8	19.8
87.5°	18.3	9.9	9.9	9.2	8.4
90°	1.5	16.8	36.7	42.8	45.9
92.5°	45.9	55.1	64.3	68.9	65.8
95°	90.3	101.0	113.2	119.3	119.3
97.5°	148.4	156.1	165.2	172.9	171.4
100°	208.1	217.3	224.9	229.5	232.6
102.5°	276.9	281.5	292.2	296.8	295.3
105°	344.3	347.3	361.1	361.1	364.2
107.5°	423.8	425.4	431.5	436.1	434.5
110°	497.3	500.3	503.4	509.5	506.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	573.8	575.3	575.3	583.0	583.0
115°	650.3	654.9	651.8	653.3	651.8
117.5°	728.3	729.8	726.8	726.8	722.2
120°	800.2	809.4	801.7	800.2	797.2
122.5°	875.2	881.3	878.3	873.7	869.1
125°	951.7	956.3	953.2	947.1	941.0
127.5°	1022.1	1031.3	1028.2	1019.0	1012.9
130°	1092.5	1104.7	1100.1	1094.0	1083.3
132.5°	1162.8	1175.1	1172.0	1164.4	1156.7
135°	1234.8	1243.9	1242.4	1236.3	1233.2
137.5°	1300.5	1308.2	1312.8	1305.1	1300.5
140°	1369.4	1377.0	1378.6	1377.0	1366.3
142.5°	1432.1	1439.8	1442.8	1441.3	1433.7
145°	1497.9	1501.0	1505.6	1504.0	1497.9
147.5°	1554.5	1560.7	1565.2	1565.2	1556.1
150°	1614.2	1617.3	1620.3	1620.3	1611.1
152.5°	1663.2	1667.8	1669.3	1672.3	1664.7
155°	1715.2	1715.2	1716.7	1722.8	1712.1
157.5°	1759.6	1758.0	1759.6	1765.7	1756.5
160°	1800.9	1797.8	1797.8	1805.5	1799.3
162.5°	1837.6	1833.0	1834.5	1842.2	1831.5
165°	1868.2	1863.6	1863.6	1872.8	1862.1
167.5°	1894.2	1888.1	1889.6	1898.8	1889.6
170°	1915.6	1909.5	1909.5	1920.2	1909.5
172.5°	1932.5	1926.3	1926.3	1935.5	1924.8
175°	1943.2	1937.0	1937.0	1946.2	1935.5
177.5°	1949.3	1943.2	1943.2	1952.3	1941.6
180°	1947.8	1947.8	1947.8	1947.8	1947.8

(END OF REPORT)