

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: P1032225

Luminaire Tested: S123RDIW-B340D1535UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032225
REPORT IS A COMBINATION OF REPORTS P994277 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B340D1535UB35-4F0-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

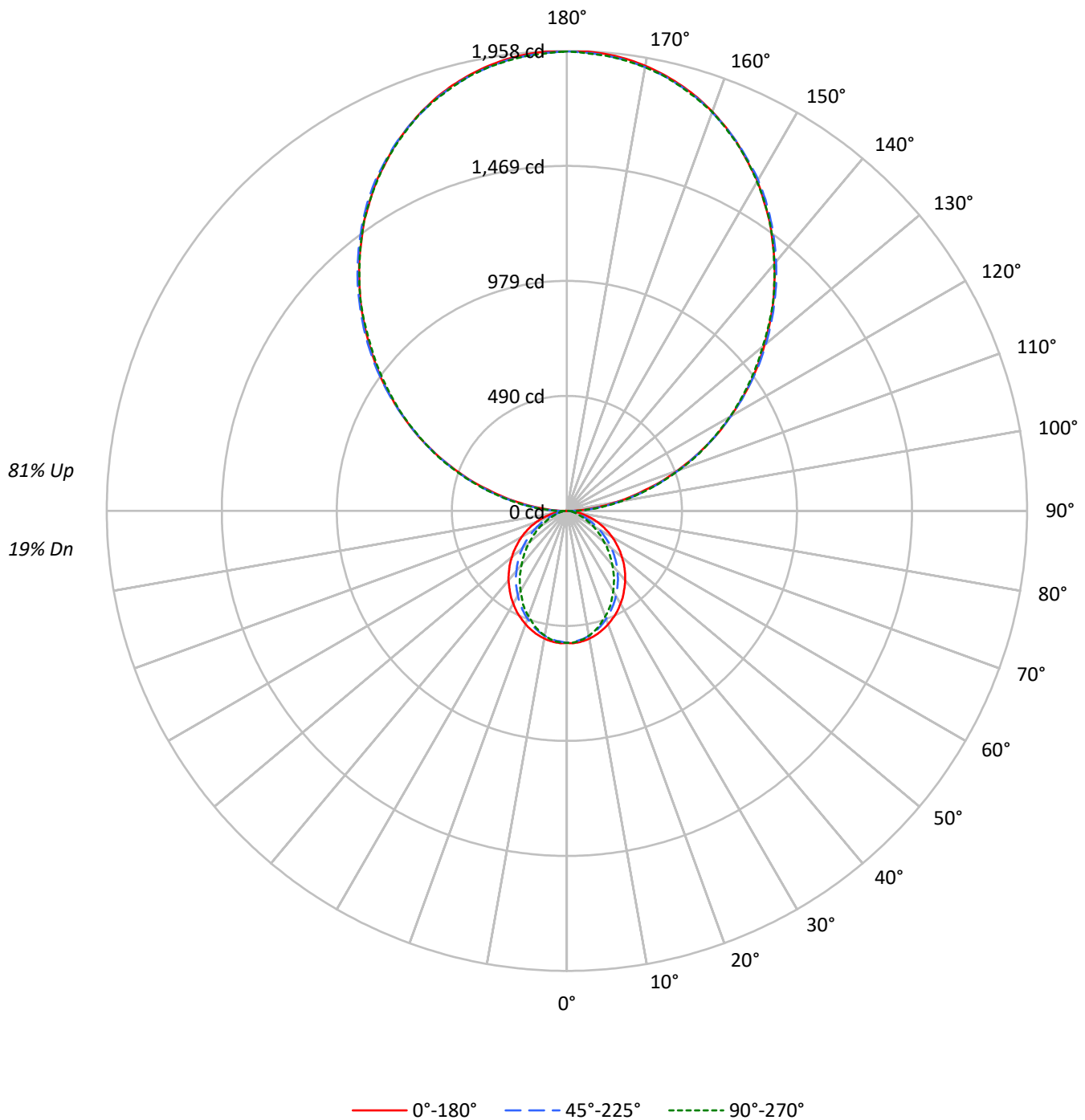
Lumens per Lamp: N/A
Luminaire Lumens: 6693.0 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 65.2
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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28
1	91	87	83	80	80	77	74	71	58	56	54	41	39	38	25	24	24
2	83	76	70	65	73	67	62	58	51	48	45	36	34	32	22	21	20
3	76	67	60	54	66	59	53	49	45	41	38	32	29	27	19	18	17
4	69	59	52	46	61	52	46	41	40	36	32	28	26	23	17	16	15
5	63	52	45	39	56	47	40	35	36	31	28	25	22	20	16	14	13
6	58	47	39	34	51	42	35	30	32	27	24	23	20	18	14	13	11
7	54	42	35	29	47	38	31	27	29	24	21	21	18	15	13	11	10
8	50	38	31	26	44	34	28	23	26	22	18	19	16	14	12	10	9
9	46	35	28	23	41	31	25	21	24	19	16	17	14	12	11	9	8
10	43	32	25	20	38	28	22	18	22	18	15	16	13	11	10	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6046	6046	6046
5°	6056	5833	5817
10°	6008	5613	5502
15°	5930	5342	5158
20°	5828	5047	4774
25°	5723	4741	4409
30°	5587	4415	3979
35°	5449	4095	3587
40°	5316	3747	3154
45°	5149	3407	2764
50°	4963	3044	2361
55°	4771	2656	1991
60°	4587	2257	1616
65°	4349	1849	1261
70°	4052	1398	901
75°	3621	947	714
80°	3089	658	501
85°	2315	356	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	0.8
10°-20°	146.9	2.2
20°-30°	211.5	3.2
30°-40°	238.2	3.6
40°-50°	227.8	3.4
50°-60°	186.5	2.8
60°-70°	125.7	1.9
70°-80°	63.1	0.9
80°-90°	20.6	0.3
90°-100°	125.9	1.9
100°-110°	381.1	5.7
110°-120°	648.8	9.7
120°-130°	853.5	12.8
130°-140°	959.4	14.3
140°-150°	943.2	14.1
150°-160°	794.1	11.9
160°-170°	528.7	7.9
170°-180°	185.1	2.8
0°-30°	411.2	6.1
0°-40°	649.4	9.7
0°-60°	1063.7	15.9
0°-90°	1273.1	19.0
90°-120°	1155.8	17.3
90°-150°	3912.0	58.4
90°-180°	5420.0	81.0
0°-180°	6693.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	562	559	554	558	557	53
15°	536	531	518	516	512	151
25°	488	476	455	446	440	224
35°	422	406	377	358	349	264
45°	347	326	291	265	254	268
55°	263	241	202	176	167	236
65°	180	155	119	97	92	178
75°	95	73	48	44	43	101
85°	24	14	13	12	12	26
90°	2	17	37	43	46	8
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°	561.7	561.7	561.7	561.7	561.7
2.5°	564.0	562.2	556.7	561.7	560.8
5°	561.7	559.4	554.0	558.1	557.2
7.5°	557.6	555.3	548.5	551.2	549.9
10°	552.1	549.0	540.8	541.2	538.9
12.5°	544.4	540.8	530.3	529.8	527.1
15°	535.7	530.7	518.0	515.7	512.5
17.5°	525.3	519.8	503.9	499.3	494.7
20°	513.4	506.1	488.8	482.9	477.4
22.5°	500.2	491.6	472.9	465.1	460.1
25°	487.5	476.1	455.1	445.5	440.5
27.5°	472.0	459.7	436.9	424.1	416.4
30°	456.0	442.4	416.8	401.4	394.1
32.5°	440.1	424.1	396.8	379.5	371.7
35°	421.9	405.5	377.2	357.6	349.4
37.5°	403.6	385.9	356.3	334.4	324.4
40°	386.3	366.3	333.9	310.2	299.8
42.5°	366.7	346.7	313.0	286.5	277.4
45°	346.7	326.2	291.1	265.1	254.2
47.5°	327.1	304.3	269.7	241.4	231.9
50°	305.2	283.8	246.9	218.7	208.2
52.5°	285.6	261.9	225.5	195.9	186.8
55°	263.3	241.0	202.3	175.8	166.7
57.5°	243.3	219.1	179.9	154.9	147.1
60°	222.3	197.3	159.4	134.8	127.1
62.5°	201.4	176.3	138.5	115.7	107.5
65°	179.9	154.9	119.4	97.0	92.0
67.5°	158.5	133.0	98.4	81.5	76.1
70°	137.6	113.0	81.1	65.1	60.1
72.5°	116.6	92.5	64.2	51.9	50.6
75°	95.2	73.3	48.3	43.7	42.8
77.5°	75.6	55.6	37.8	35.1	34.2
80°	56.9	38.3	28.7	27.3	26.4
82.5°	39.2	23.7	20.5	19.1	19.1
85°	24.1	14.1	12.8	11.8	11.8
87.5°	10.9	5.9	5.9	5.5	5.0
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)