

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: P1032187

Luminaire Tested: S123RDIW-B340D1030UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032187
REPORT IS A COMBINATION OF REPORTS P994189 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B340D1030UB35-4F0-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

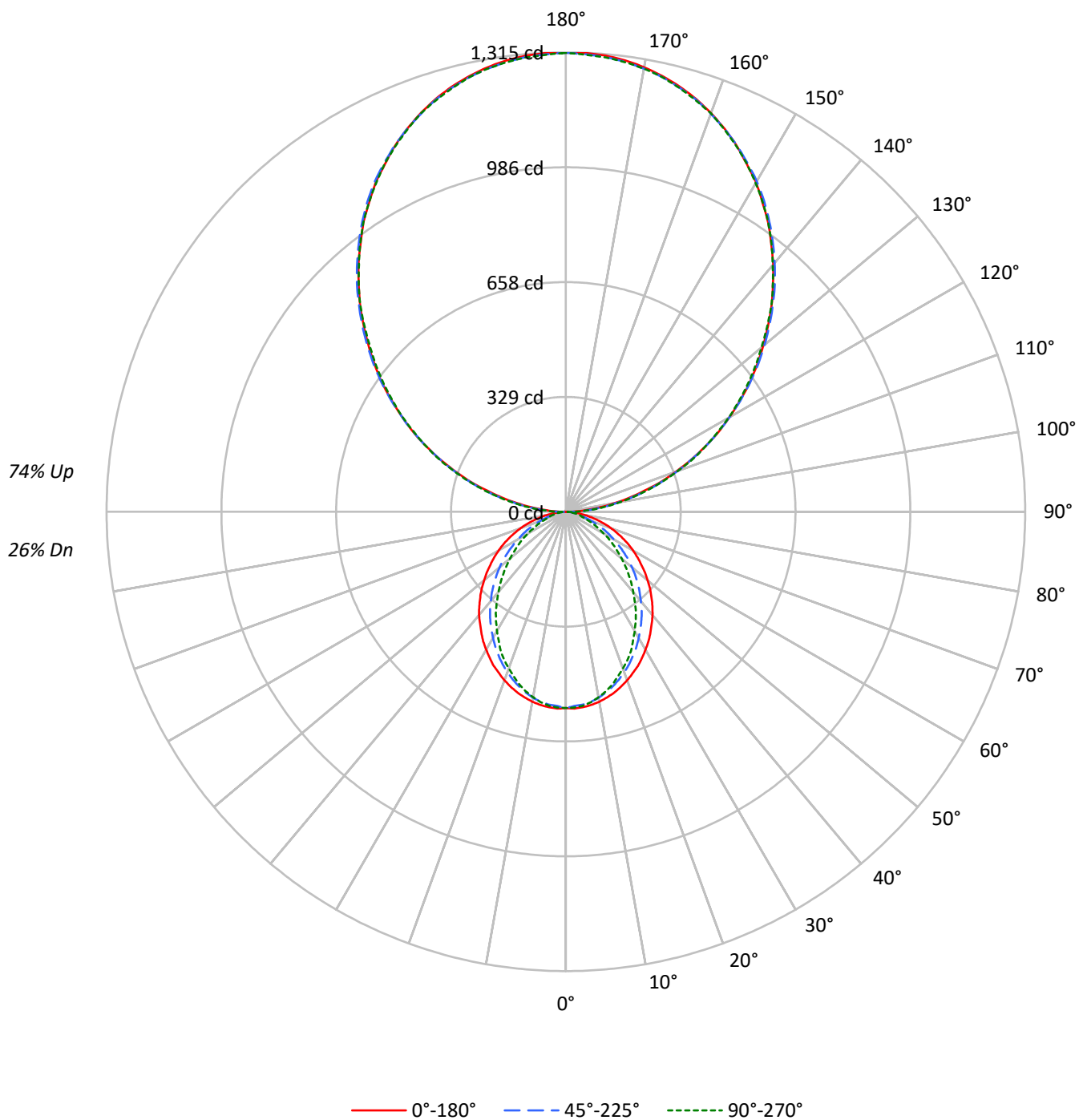
Lumens per Lamp: N/A
Luminaire Lumens: 4912.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 44.5
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

TEST NUMBER: P1032187

CATALOG NUMBER: S123RDIW-B340D1030UB35-4F0-XX-W2A-F1

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	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	93	88	85	81	82	79	76	73	61	59	58	45	44	43	30	30	29	22
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	26	25	19
3	77	68	61	56	68	61	55	50	48	44	40	35	33	31	24	22	21	16
4	70	60	53	47	63	54	48	43	42	38	34	31	29	26	21	20	18	14
5	65	54	46	40	57	48	42	37	38	33	30	28	25	23	19	17	16	12
6	59	48	40	35	53	43	36	32	34	29	26	26	22	20	18	16	14	11
7	55	43	36	30	49	39	32	28	31	26	23	23	20	18	16	14	13	10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	16	15	13	11	9
9	47	36	28	24	42	32	26	22	26	21	18	19	16	14	14	12	10	8
10	44	32	26	21	39	29	23	19	23	19	16	18	15	13	13	11	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

TEST NUMBER: P1032187

CATALOG NUMBER: S123RDIW-B340D1030UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.1
10°-20°	146.9	3.0
20°-30°	211.5	4.3
30°-40°	238.2	4.8
40°-50°	227.8	4.6
50°-60°	186.5	3.8
60°-70°	125.7	2.6
70°-80°	63.1	1.3
80°-90°	19.3	0.4
90°-100°	84.6	1.7
100°-110°	256.0	5.2
110°-120°	435.8	8.9
120°-130°	573.3	11.7
130°-140°	644.4	13.1
140°-150°	633.5	12.9
150°-160°	533.3	10.9
160°-170°	355.1	7.2
170°-180°	124.3	2.5
0°-30°	411.2	8.4
0°-40°	649.4	13.2
0°-60°	1063.7	21.7
0°-90°	1271.7	25.9
90°-120°	776.3	15.8
90°-150°	2627.5	53.5
90°-180°	3640.0	74.1
0°-180°	4912.0	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°	1	11	25	29	31	6
95°	61	68	76	80	80	67
105°	232	234	244	244	246	249
115°	439	442	440	441	440	434
125°	642	645	643	639	635	572
135°	833	839	838	834	832	642
145°	1010	1012	1016	1014	1010	631
155°	1157	1157	1158	1162	1155	533
165°	1260	1257	1257	1263	1256	355
175°	1311	1306	1306	1313	1306	125
180°	1314	1314	1314	1314	1314	

TEST NUMBER: P1032187

CATALOG NUMBER: S123RDIW-B340D1030UB35-4F0-XX-W2A-F1

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°	1.0	11.4	24.8	28.9	31.0
92.5°	31.0	37.2	43.3	46.4	44.4
95°	60.9	68.1	76.4	80.5	80.5
97.5°	100.1	105.3	111.5	116.6	115.6
100°	140.4	146.5	151.7	154.8	156.9
102.5°	186.8	189.9	197.1	200.2	199.2
105°	232.2	234.3	243.6	243.6	245.6
107.5°	285.9	286.9	291.0	294.1	293.1
110°	335.4	337.5	339.5	343.7	341.6

TEST NUMBER: P1032187

CATALOG NUMBER: S123RDIW-B340D1030UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	387.0	388.0	388.0	393.2	393.2
115°	438.6	441.7	439.6	440.7	439.6
117.5°	491.2	492.3	490.2	490.2	487.1
120°	539.8	545.9	540.8	539.8	537.7
122.5°	590.3	594.4	592.4	589.3	586.2
125°	641.9	645.0	643.0	638.8	634.7
127.5°	689.4	695.6	693.5	687.3	683.2
130°	736.9	745.1	742.0	737.9	730.7
132.5°	784.3	792.6	790.5	785.4	780.2
135°	832.8	839.0	838.0	833.9	831.8
137.5°	877.2	882.4	885.5	880.3	877.2
140°	923.7	928.8	929.9	928.8	921.6
142.5°	966.0	971.1	973.2	972.2	967.0
145°	1010.4	1012.4	1015.5	1014.5	1010.4
147.5°	1048.5	1052.7	1055.8	1055.8	1049.6
150°	1088.8	1090.9	1092.9	1092.9	1086.7
152.5°	1121.8	1124.9	1125.9	1128.0	1122.8
155°	1156.9	1156.9	1157.9	1162.1	1154.8
157.5°	1186.8	1185.8	1186.8	1191.0	1184.8
160°	1214.7	1212.6	1212.6	1217.8	1213.7
162.5°	1239.5	1236.4	1237.4	1242.6	1235.3
165°	1260.1	1257.0	1257.0	1263.2	1256.0
167.5°	1277.7	1273.5	1274.6	1280.7	1274.6
170°	1292.1	1288.0	1288.0	1295.2	1288.0
172.5°	1303.5	1299.3	1299.3	1305.5	1298.3
175°	1310.7	1306.5	1306.5	1312.7	1305.5
177.5°	1314.8	1310.7	1310.7	1316.9	1309.6
180°	1313.8	1313.8	1313.8	1313.8	1313.8

(END OF REPORT)