

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: P1032283

Luminaire Tested: S123RDIW-B560D1030UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032283
REPORT IS A COMBINATION OF REPORTS P994409 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B560D1030UB35-4F0-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

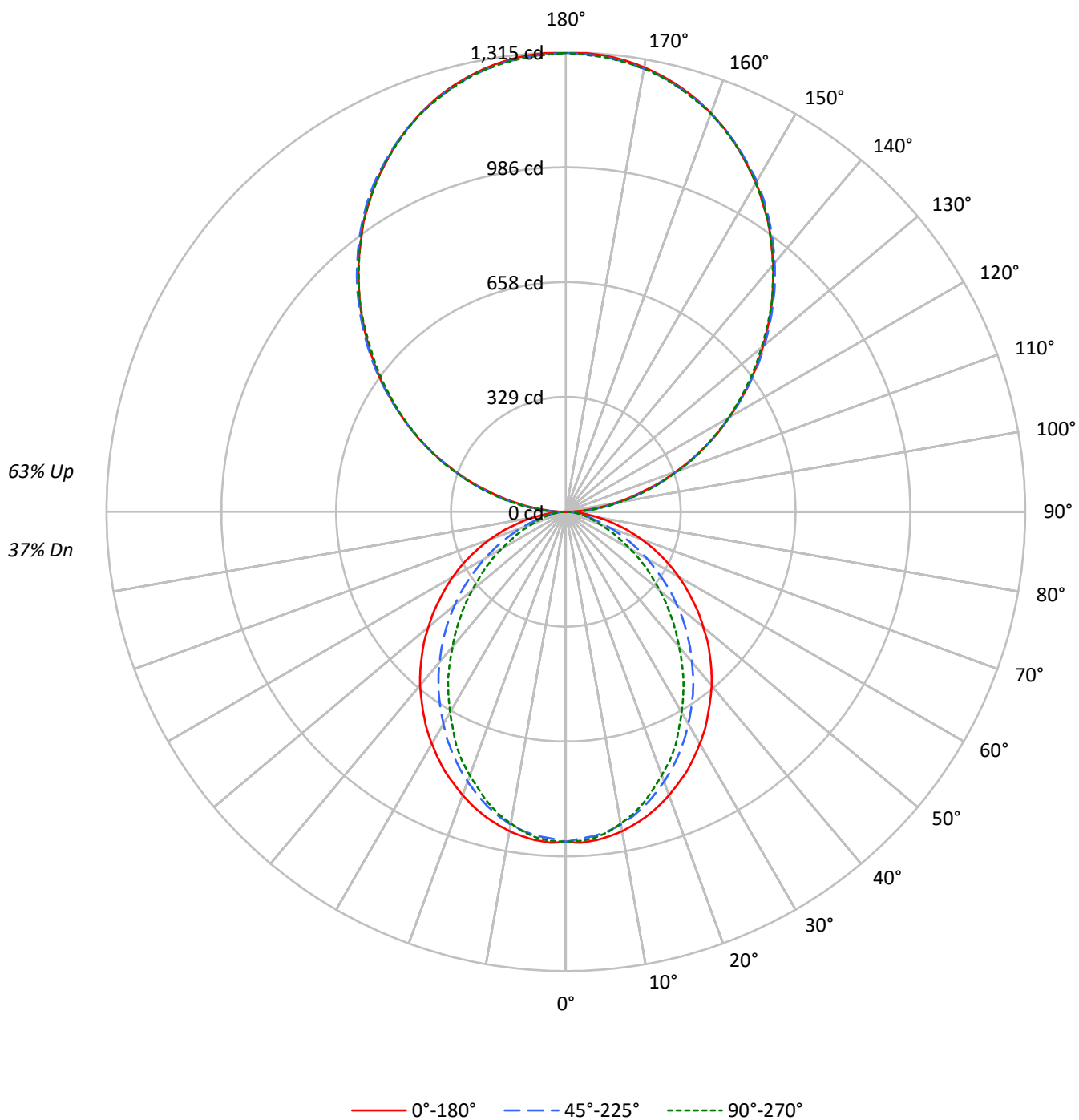
Lumens per Lamp: N/A
Luminaire Lumens: 5777.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.5
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

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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	44	44	37
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	39	39	38	38	38	32
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	32	32	27
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	28	28	28	23
4	73	62	55	49	66	57	50	45	46	42	38	37	34	31	28	26	24	24	24	20
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21	21	21	17
6	61	50	42	36	55	45	39	34	37	32	29	30	26	23	23	20	19	19	19	15
7	57	45	37	32	51	41	34	30	34	29	25	27	24	21	21	18	17	17	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	19	17	15	15	15	12
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13	13	13	11
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	17	14	12	12	12	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	1.5
10°-20°	247.0	4.3
20°-30°	355.7	6.2
30°-40°	400.5	6.9
40°-50°	383.1	6.6
50°-60°	313.6	5.4
60°-70°	211.5	3.7
70°-80°	106.1	1.8
80°-90°	30.5	0.5
90°-100°	84.6	1.5
100°-110°	256.0	4.4
110°-120°	435.8	7.5
120°-130°	573.3	9.9
130°-140°	644.4	11.2
140°-150°	633.5	11.0
150°-160°	533.3	9.2
160°-170°	355.1	6.1
170°-180°	124.3	2.2
0°-30°	691.5	12.0
0°-40°	1092.0	18.9
0°-60°	1788.8	31.0
0°-90°	2136.8	37.0
90°-120°	776.3	13.4
90°-150°	2627.5	45.5
90°-180°	3640.0	63.0
0°-180°	5777.0	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°	1	11	25	29	31	7
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	

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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°	1.0	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

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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)