

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: P1032054

Luminaire Tested: S123RDIW-B1000D460UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032054
REPORT IS A COMBINATION OF REPORTS P993886 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D460UB40-4F0-XX-W2A-F
Description: Define 3 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

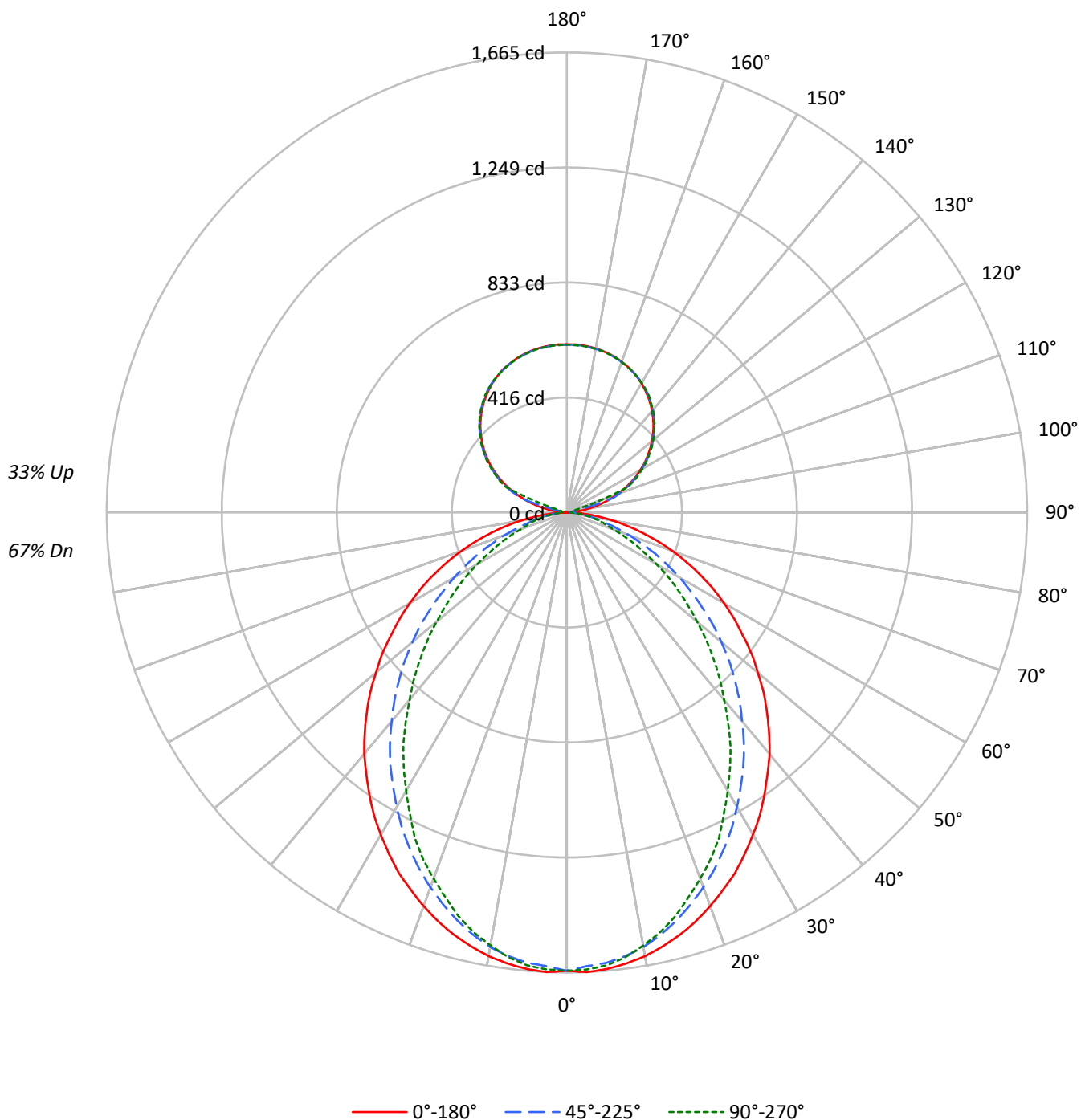
Lumens per Lamp: N/A
Luminaire Lumens: 5602.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	64	63	61
2	93	86	80	75	88	81	76	71	72	68	65	64	61	58	57	55	52
3	85	76	69	63	80	72	65	60	64	59	55	57	53	50	51	48	45
4	78	68	60	54	74	64	57	51	57	52	47	51	47	43	46	42	39
5	72	60	52	46	68	57	50	45	52	46	41	46	42	38	41	38	34
6	67	54	46	40	63	52	44	39	47	41	36	42	37	33	38	34	31
7	62	49	41	36	58	47	40	35	43	37	32	38	33	30	35	30	27
8	58	45	37	32	54	43	36	31	39	33	29	35	30	27	32	28	25
9	54	41	34	29	51	39	32	28	36	30	26	33	28	24	29	25	22
10	50	38	31	26	47	36	30	25	33	27	23	30	25	22	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17853	17853	17853
5°	17882	17221	17174
10°	17741	16574	16247
15°	17511	15773	15231
20°	17209	14903	14096
25°	16897	13998	13021
30°	16498	13036	11749
35°	16086	12091	10591
40°	15699	11064	9311
45°	15203	10060	8161
50°	14655	8990	6971
55°	14088	7842	5880
60°	13544	6666	4773
65°	12843	5458	3725
70°	11962	4127	2663
75°	10693	2795	2109
80°	9126	1941	1479
85°	6849	1050	776

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15203 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	2.8
10°-20°	433.7	7.7
20°-30°	624.5	11.1
30°-40°	703.3	12.6
40°-50°	672.7	12.0
50°-60°	550.7	9.8
60°-70°	371.3	6.6
70°-80°	186.2	3.3
80°-90°	49.9	0.9
90°-100°	21.4	0.4
100°-110°	103.7	1.9
110°-120°	254.0	4.5
120°-130°	322.5	5.8
130°-140°	344.5	6.2
140°-150°	322.2	5.8
150°-160°	259.9	4.6
160°-170°	167.7	3.0
170°-180°	57.8	1.0
0°-30°	1214.2	21.7
0°-40°	1917.4	34.2
0°-60°	3140.8	56.1
0°-90°	3748.2	66.9
90°-120°	379.2	6.8
90°-150°	1368.4	24.4
90°-180°	1854.0	33.1
0°-180°	5602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1659	1652	1636	1648	1645	157
15°	1582	1567	1529	1523	1513	446
25°	1439	1406	1344	1316	1301	662
35°	1246	1197	1114	1056	1032	780
45°	1024	963	860	783	751	790
55°	778	712	597	519	492	697
65°	531	457	352	286	272	526
75°	281	217	143	129	126	300
85°	71	42	38	35	35	78
90°	0	5	11	13	14	6
95°	28	9	14	17	17	33
105°	135	140	99	19	20	143
115°	252	255	259	264	266	249
125°	356	360	361	362	363	318
135°	443	446	448	449	448	341
145°	511	515	516	516	516	320
155°	563	562	563	565	562	260
165°	594	593	592	596	593	168
175°	608	606	606	609	606	58
180°	608	608	608	608	608	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1658.6	1658.6	1658.6	1658.6	1658.6
2.5°	1665.3	1659.9	1643.8	1658.6	1655.9
5°	1658.6	1651.8	1635.7	1647.8	1645.1
7.5°	1646.5	1639.7	1619.6	1627.6	1623.6
10°	1630.3	1620.9	1596.7	1598.0	1591.3
12.5°	1607.5	1596.7	1565.8	1564.4	1556.3
15°	1581.9	1567.1	1529.4	1522.7	1513.3
17.5°	1551.0	1534.8	1487.7	1474.3	1460.8
20°	1516.0	1494.5	1443.3	1425.9	1409.7
22.5°	1477.0	1451.4	1396.3	1373.4	1358.6
25°	1439.3	1405.7	1343.8	1315.6	1300.8
27.5°	1393.6	1357.3	1290.0	1252.3	1229.5
30°	1346.5	1306.1	1230.8	1185.1	1163.6
32.5°	1299.4	1252.3	1171.6	1120.5	1097.6
35°	1245.6	1197.2	1113.8	1055.9	1031.7
37.5°	1191.8	1139.3	1051.9	987.3	957.7
40°	1140.7	1081.5	986.0	916.0	885.1
42.5°	1082.8	1023.7	924.1	846.1	819.2
45°	1023.7	963.1	859.5	782.9	750.6
47.5°	965.8	898.6	796.3	712.9	684.7
50°	901.2	838.0	729.1	645.7	614.7
52.5°	843.4	773.5	665.8	578.4	551.5
55°	777.5	711.6	597.2	519.2	492.3
57.5°	718.3	647.0	531.3	457.4	434.5
60°	656.4	582.4	470.8	398.2	375.3
62.5°	594.6	520.6	408.9	341.7	317.5
65°	531.3	457.4	352.4	286.5	271.7
67.5°	468.1	392.8	290.6	240.8	224.6
70°	406.2	333.6	239.4	192.4	177.6
72.5°	344.4	273.1	189.7	153.3	149.3
75°	281.1	216.6	142.6	129.1	126.4
77.5°	223.3	164.1	111.6	103.6	100.9
80°	168.1	113.0	84.7	80.7	78.0
82.5°	115.7	69.9	60.5	56.5	56.5
85°	71.3	41.7	37.7	35.0	35.0
87.5°	32.3	17.5	17.5	16.1	14.8
90°	0.5	5.0	10.8	12.6	13.6
92.5°	10.4	7.7	11.7	14.9	15.4
95°	27.6	9.0	14.0	17.2	17.2
97.5°	50.1	37.5	14.5	18.1	18.5
100°	76.3	85.4	14.9	18.5	19.0
102.5°	106.2	112.0	33.4	18.5	19.4
105°	134.6	139.6	98.9	19.0	19.9
107.5°	164.9	169.0	175.7	106.2	47.0
110°	195.2	198.8	203.7	188.8	124.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.1	227.2	232.2	236.3	235.4
115°	252.5	255.2	259.3	263.8	265.6
117.5°	280.5	283.7	286.0	289.6	290.0
120°	306.3	310.4	311.7	315.3	315.3
122.5°	332.5	335.7	337.5	339.7	340.2
125°	356.0	359.6	361.4	362.3	363.2
127.5°	379.5	383.1	385.4	386.7	385.8
130°	401.2	404.8	406.6	408.4	407.5
132.5°	422.0	425.6	426.9	428.7	427.4
135°	443.2	445.9	447.7	449.1	447.7
137.5°	461.3	464.9	465.8	468.0	467.1
140°	479.3	482.0	483.4	485.2	484.3
142.5°	496.0	498.8	500.1	501.5	500.1
145°	511.4	514.6	515.5	516.4	516.4
147.5°	526.3	528.6	529.5	530.4	528.1
150°	539.9	541.2	542.1	543.0	541.7
152.5°	552.1	552.5	553.0	554.8	552.5
155°	563.4	562.5	562.9	565.2	562.5
157.5°	572.4	572.4	571.9	574.6	571.0
160°	580.5	580.1	579.6	582.3	579.2
162.5°	588.2	586.8	586.4	589.6	586.8
165°	594.1	592.7	592.3	595.9	592.7
167.5°	599.0	597.2	597.2	600.9	597.2
170°	603.1	601.3	601.3	604.9	601.3
172.5°	605.8	603.6	604.0	607.6	603.6
175°	608.1	605.8	606.3	609.4	605.8
177.5°	609.0	606.7	607.2	610.8	606.3
180°	608.1	608.1	608.1	608.1	608.1

(END OF REPORT)