

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: P1031052

Luminaire Tested: S123RDIW-B1000D460UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031052
REPORT IS A COMBINATION OF REPORTS P993868 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D460UB2750-4F0-XX-W2A-F_3500K
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

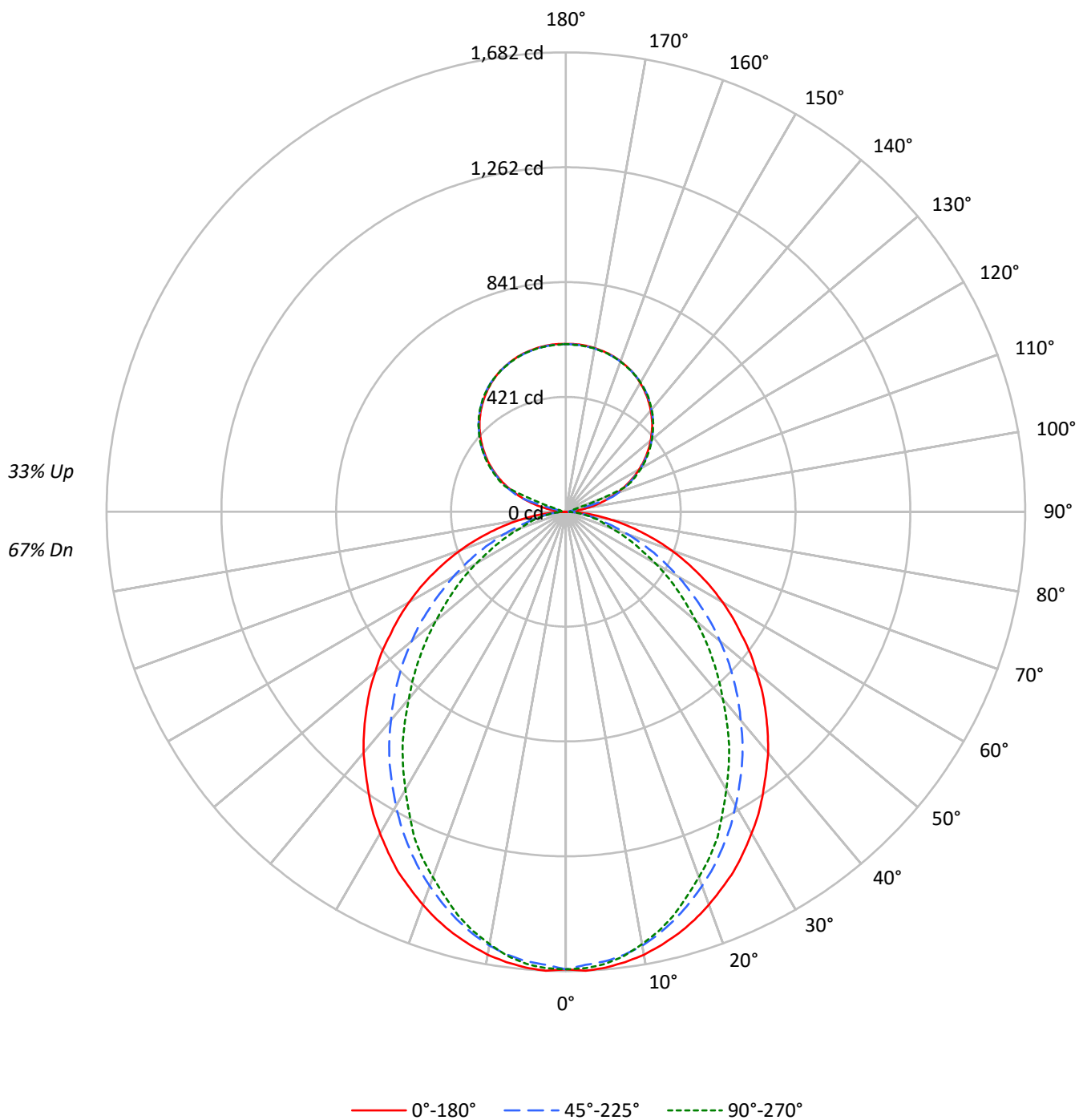
Lumens per Lamp: N/A
Luminaire Lumens: 5658.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1031052

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-F_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1031052

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-F_3500K

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67		
1	102	98	94	90	96	92	89	86	82	80	77	73	71	69	64	63	61	57		
2	93	86	80	75	88	81	76	71	72	68	65	64	61	58	57	55	52	49		
3	85	76	69	63	80	72	65	60	64	59	55	57	53	50	51	48	45	42		
4	78	68	60	54	74	64	57	51	57	52	47	51	47	43	46	42	39	36		
5	72	60	52	46	68	57	50	45	52	46	41	46	42	38	41	38	34	32		
6	67	54	46	40	63	52	44	39	47	41	36	42	37	33	38	34	31	28		
7	62	49	41	36	58	47	40	35	43	37	32	38	33	30	35	30	27	25		
8	58	45	37	32	54	43	36	31	39	33	29	35	30	27	32	28	25	22		
9	54	41	34	29	51	39	32	28	36	30	26	33	28	24	29	25	22	20		
10	50	38	31	26	47	36	30	25	33	27	23	30	25	22	27	23	20	19		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18034	18034	18034
5°	18063	17396	17349
10°	17922	16742	16411
15°	17688	15933	15385
20°	17384	15054	14239
25°	17069	14140	13153
30°	16664	13168	11868
35°	16249	12214	10698
40°	15859	11177	9406
45°	15356	10163	8244
50°	14804	9081	7042
55°	14231	7922	5939
60°	13683	6734	4821
65°	12974	5514	3763
70°	12086	4170	2690
75°	10803	2823	2130
80°	9218	1962	1494
85°	6916	1058	782

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15356 cd/sqm

TEST NUMBER: P1031052

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	2.8
10°-20°	438.1	7.7
20°-30°	630.8	11.1
30°-40°	710.4	12.6
40°-50°	679.5	12.0
50°-60°	556.3	9.8
60°-70°	375.0	6.6
70°-80°	188.1	3.3
80°-90°	50.4	0.9
90°-100°	21.7	0.4
100°-110°	104.7	1.9
110°-120°	256.5	4.5
120°-130°	325.6	5.8
130°-140°	347.9	6.1
140°-150°	325.3	5.7
150°-160°	262.4	4.6
160°-170°	169.3	3.0
170°-180°	58.4	1.0
0°-30°	1226.5	21.7
0°-40°	1936.9	34.2
0°-60°	3172.7	56.1
0°-90°	3786.2	66.9
90°-120°	382.9	6.8
90°-150°	1381.7	24.4
90°-180°	1872.0	33.1
0°-180°	5658.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1675	1669	1652	1664	1662	159
15°	1598	1583	1545	1538	1529	450
25°	1454	1420	1357	1329	1314	669
35°	1258	1209	1125	1067	1042	788
45°	1034	973	868	791	758	798
55°	785	719	603	524	497	704
65°	537	462	356	289	274	531
75°	284	219	144	130	128	303
85°	72	42	38	35	35	79
90°	0	5	11	13	14	6
95°	28	9	14	17	17	33
105°	136	141	100	19	20	144
115°	255	258	262	266	268	252
125°	359	363	365	366	367	321
135°	448	450	452	453	452	345
145°	516	520	520	521	521	323
155°	569	568	568	571	568	262
165°	600	598	598	602	598	169
175°	614	612	612	615	612	58
180°	614	614	614	614	614	

TEST NUMBER: P1031052

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.4	1675.4	1675.4	1675.4	1675.4
2.5°	1682.2	1676.7	1660.4	1675.4	1672.7
5°	1675.4	1668.6	1652.3	1664.5	1661.8
7.5°	1663.2	1656.4	1636.0	1644.1	1640.1
10°	1646.9	1637.3	1612.9	1614.2	1607.4
12.5°	1623.8	1612.9	1581.6	1580.3	1572.1
15°	1597.9	1583.0	1544.9	1538.2	1528.6
17.5°	1566.7	1550.4	1502.8	1489.2	1475.6
20°	1531.4	1509.6	1458.0	1440.3	1424.0
22.5°	1492.0	1466.1	1410.4	1387.3	1372.4
25°	1453.9	1419.9	1357.4	1328.9	1314.0
27.5°	1407.7	1371.0	1303.1	1265.0	1241.9
30°	1360.1	1319.4	1243.3	1197.1	1175.4
32.5°	1312.6	1265.0	1183.5	1131.9	1108.8
35°	1258.2	1209.3	1125.1	1066.7	1042.2
37.5°	1203.9	1150.9	1062.6	997.4	967.5
40°	1152.3	1092.5	996.0	925.3	894.1
42.5°	1093.8	1034.0	933.5	854.7	827.5
45°	1034.0	972.9	868.3	790.8	758.2
47.5°	975.6	907.7	804.4	720.2	691.6
50°	910.4	846.5	736.5	652.2	621.0
52.5°	852.0	781.3	672.6	584.3	557.1
55°	785.4	718.8	603.3	524.5	497.3
57.5°	725.6	653.6	536.7	462.0	438.9
60°	663.1	588.4	475.6	402.2	379.1
62.5°	600.6	525.9	413.1	345.1	320.7
65°	536.7	462.0	356.0	289.4	274.5
67.5°	472.9	396.8	293.5	243.2	226.9
70°	410.4	337.0	241.9	194.3	179.4
72.5°	347.9	275.8	191.6	154.9	150.8
75°	284.0	218.8	144.0	130.4	127.7
77.5°	225.6	165.8	112.8	104.6	101.9
80°	169.8	114.1	85.6	81.5	78.8
82.5°	116.9	70.7	61.1	57.1	57.1
85°	72.0	42.1	38.0	35.3	35.3
87.5°	32.6	17.7	17.7	16.3	14.9
90°	0.5	5.0	10.9	12.8	13.7
92.5°	10.5	7.8	11.9	15.1	15.5
95°	27.8	9.1	14.1	17.3	17.3
97.5°	50.6	37.9	14.6	18.2	18.7
100°	77.1	86.2	15.1	18.7	19.2
102.5°	107.2	113.1	33.8	18.7	19.6
105°	135.9	141.0	99.9	19.2	20.1
107.5°	166.5	170.6	177.4	107.2	47.4
110°	197.1	200.7	205.7	190.7	125.4

TEST NUMBER: P1031052

CATALOG NUMBER: S123RDIW-B1000D460UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	226.3	229.4	234.5	238.6	237.7
115°	255.0	257.7	261.8	266.4	268.2
117.5°	283.3	286.5	288.7	292.4	292.8
120°	309.3	313.4	314.7	318.4	318.4
122.5°	335.7	338.9	340.7	343.0	343.5
125°	359.4	363.1	364.9	365.8	366.7
127.5°	383.2	386.8	389.1	390.5	389.6
130°	405.1	408.7	410.5	412.4	411.4
132.5°	426.0	429.7	431.1	432.9	431.5
135°	447.5	450.2	452.0	453.4	452.0
137.5°	465.7	469.4	470.3	472.6	471.7
140°	484.0	486.7	488.1	489.9	489.0
142.5°	500.9	503.6	505.0	506.3	505.0
145°	516.4	519.6	520.5	521.4	521.4
147.5°	531.4	533.7	534.6	535.5	533.2
150°	545.1	546.5	547.4	548.3	546.9
152.5°	557.4	557.9	558.3	560.2	557.9
155°	568.8	567.9	568.4	570.6	567.9
157.5°	577.9	577.9	577.5	580.2	576.6
160°	586.2	585.7	585.2	588.0	584.8
162.5°	593.9	592.5	592.1	595.3	592.5
165°	599.8	598.5	598.0	601.7	598.5
167.5°	604.9	603.0	603.0	606.7	603.0
170°	609.0	607.1	607.1	610.8	607.1
172.5°	611.7	609.4	609.9	613.5	609.4
175°	614.0	611.7	612.2	615.3	611.7
177.5°	614.9	612.6	613.1	616.7	612.2
180°	614.0	614.0	614.0	614.0	614.0

(END OF REPORT)