

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: P1032070

Luminaire Tested: S123RDIW-B1000D755UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032070
REPORT IS A COMBINATION OF REPORTS P993924 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D755UB35-4F0-XX-W2A-F
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

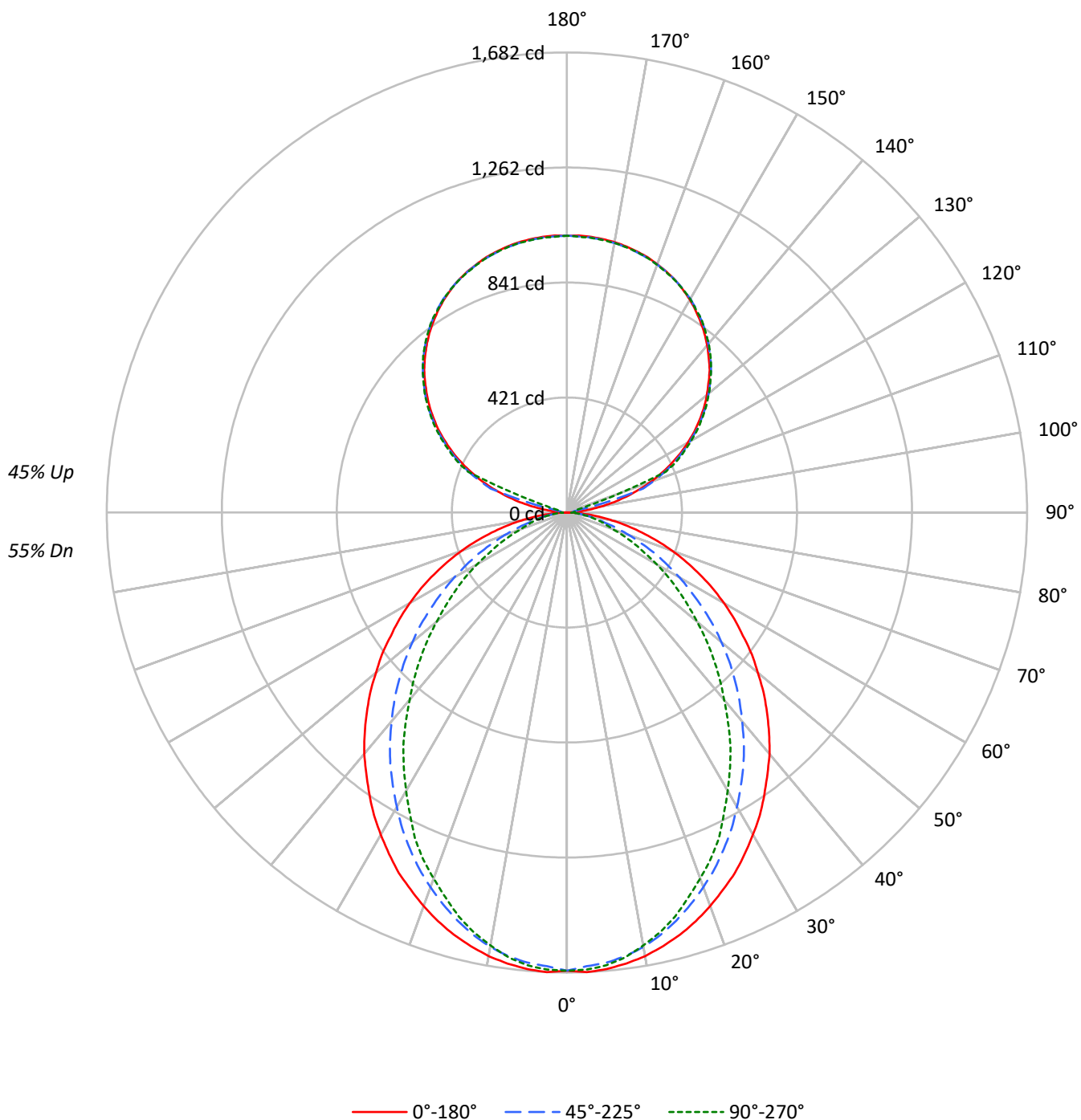
Lumens per Lamp: N/A
Luminaire Lumens: 6872.0 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70
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: P1032070

CATALOG NUMBER: S123RDIW-B1000D755UB35-4F0-XX-W2A-F

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	91	88	92	88	85	82	76	74	72	65	63	62	54	53	52
2	91	83	77	72	84	78	73	68	67	63	60	57	54	52	48	46	44
3	83	74	66	61	77	69	62	57	60	55	51	51	47	44	43	40	38
4	76	65	58	52	70	61	54	49	53	48	44	46	42	38	39	36	33
5	70	58	50	45	65	55	48	42	48	42	38	41	37	33	35	32	29
6	65	53	45	39	60	49	42	37	43	37	33	37	33	29	32	28	26
7	60	48	40	34	55	45	38	33	39	33	29	34	30	26	29	26	23
8	56	43	36	30	52	41	34	29	36	30	26	31	27	23	27	23	21
9	52	40	32	27	48	37	31	26	33	27	24	29	24	21	25	21	19
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17

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: P1032070

CATALOG NUMBER: S123RDIW-B1000D755UB35-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.5	2.3
10°-20°	438.1	6.4
20°-30°	630.8	9.2
30°-40°	710.4	10.3
40°-50°	679.5	9.9
50°-60°	556.3	8.1
60°-70°	375.0	5.5
70°-80°	188.1	2.7
80°-90°	51.2	0.7
90°-100°	35.7	0.5
100°-110°	172.5	2.5
110°-120°	422.8	6.2
120°-130°	536.7	7.8
130°-140°	573.4	8.3
140°-150°	536.2	7.8
150°-160°	432.5	6.3
160°-170°	279.1	4.1
170°-180°	96.2	1.4
0°-30°	1226.5	17.8
0°-40°	1936.9	28.2
0°-60°	3172.7	46.2
0°-90°	3787.0	55.1
90°-120°	631.0	9.2
90°-150°	2277.3	33.1
90°-180°	3085.0	44.9
0°-180°	6872.0	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°	1	8	18	21	23	7
95°	46	15	23	29	29	55
105°	224	232	165	32	33	238
115°	420	425	432	439	442	415
125°	592	598	601	603	604	529
135°	738	742	745	747	745	568
145°	851	856	858	859	859	533
155°	938	936	937	940	936	432
165°	989	986	986	992	986	279
175°	1012	1008	1009	1014	1008	96
180°	1012	1012	1012	1012	1012	

TEST NUMBER: P1032070

CATALOG NUMBER: S123RDIW-B1000D755UB35-4F0-XX-W2A-F

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°	0.8	8.3	18.0	21.1	22.6
92.5°	17.3	12.8	19.5	24.8	25.6
95°	45.9	15.0	23.3	28.6	28.6
97.5°	83.5	62.4	24.1	30.1	30.8
100°	127.1	142.1	24.8	30.8	31.6
102.5°	176.7	186.4	55.6	30.8	32.3
105°	224.0	232.3	164.6	31.6	33.1
107.5°	274.4	281.2	292.5	176.7	78.2
110°	324.8	330.8	339.1	314.3	206.7



TEST NUMBER: P1032070

CATALOG NUMBER: S123RDIW-B1000D755UB35-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.9	378.2	386.4	393.2	391.7
115°	420.3	424.8	431.5	439.1	442.1
117.5°	466.9	472.1	475.9	481.9	482.7
120°	509.7	516.5	518.7	524.8	524.8
122.5°	553.3	558.6	561.6	565.4	566.1
125°	592.4	598.4	601.4	603.0	604.5
127.5°	631.5	637.5	641.3	643.6	642.0
130°	667.6	673.6	676.6	679.6	678.1
132.5°	702.2	708.2	710.5	713.5	711.2
135°	737.5	742.0	745.0	747.3	745.0
137.5°	767.6	773.6	775.1	778.9	777.4
140°	797.7	802.2	804.4	807.4	805.9
142.5°	825.5	830.0	832.3	834.5	832.3
145°	851.1	856.3	857.8	859.3	859.3
147.5°	875.9	879.6	881.1	882.6	878.9
150°	898.4	900.7	902.2	903.7	901.4
152.5°	918.7	919.5	920.2	923.2	919.5
155°	937.5	936.0	936.8	940.5	936.0
157.5°	952.5	952.5	951.8	956.3	950.3
160°	966.1	965.3	964.6	969.1	963.8
162.5°	978.9	976.6	975.9	981.1	976.6
165°	988.6	986.4	985.6	991.6	986.4
167.5°	996.9	993.9	993.9	999.9	993.9
170°	1003.7	1000.7	1000.7	1006.7	1000.7
172.5°	1008.2	1004.4	1005.2	1011.2	1004.4
175°	1011.9	1008.2	1008.9	1014.2	1008.2
177.5°	1013.4	1009.7	1010.4	1016.4	1008.9
180°	1011.9	1011.9	1011.9	1011.9	1011.9

(END OF REPORT)