

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: P1032166

Luminaire Tested: S123RDIW-B1165D755UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032166
REPORT IS A COMBINATION OF REPORTS P994144 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1165D755UB35-4F0-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

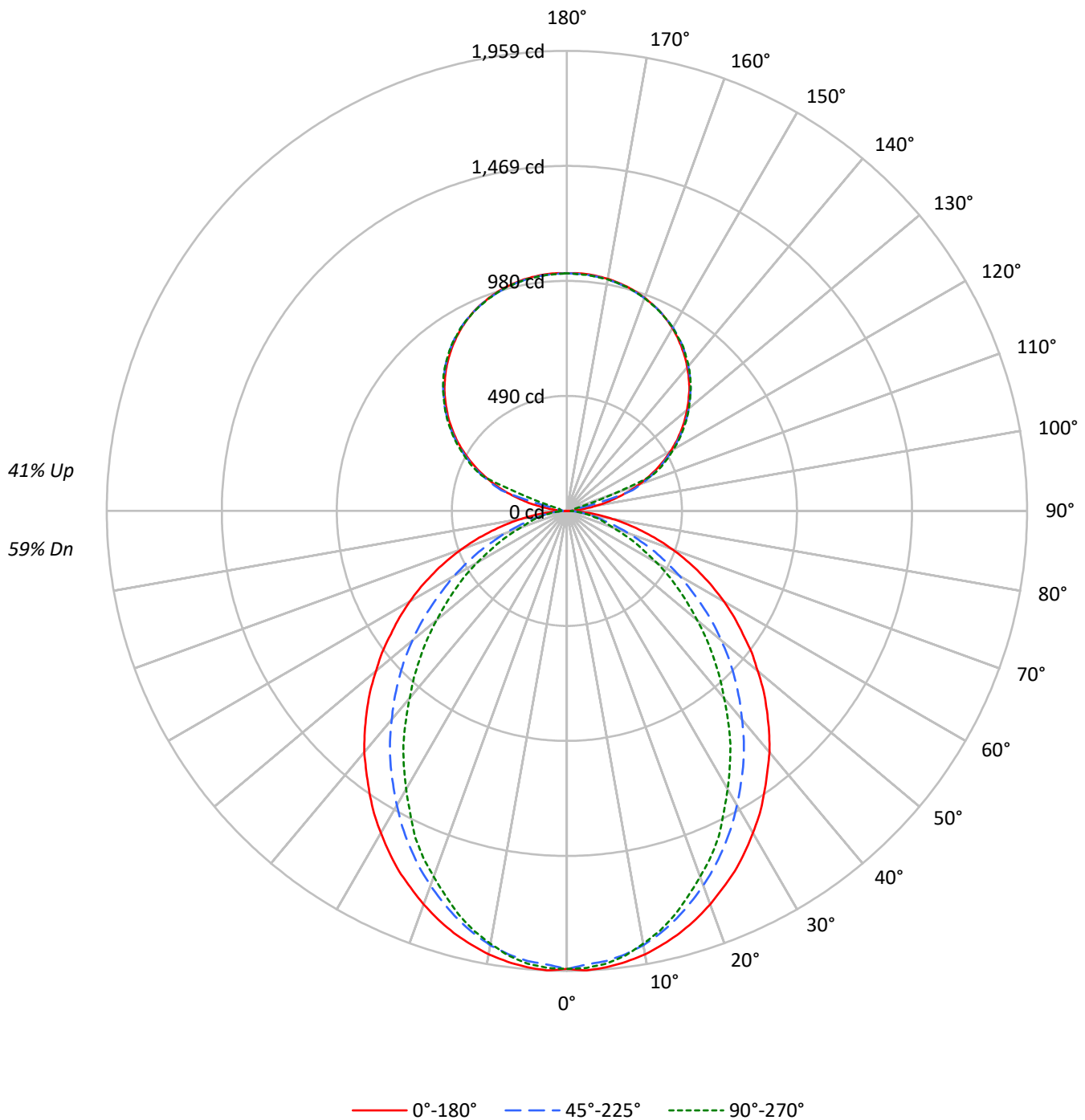
Lumens per Lamp: N/A
Luminaire Lumens: 7494.0 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.5
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: P1032166

CATALOG NUMBER: S123RDIW-B1165D755UB35-4F0-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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64
1	100	96	92	89	93	90	86	83	78	76	73	67	66	64	57	56	55
2	92	84	78	73	85	79	74	69	69	65	61	60	57	54	51	49	47
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	40
4	77	66	58	52	71	62	55	50	54	49	45	47	43	40	41	38	35
5	71	59	51	45	66	56	48	43	49	43	39	43	38	35	37	34	31
6	65	53	45	39	61	50	43	38	44	38	34	39	34	31	34	30	27
7	60	48	40	35	56	45	38	33	40	34	30	35	31	27	31	27	24
8	56	44	36	31	52	41	34	30	37	31	27	33	28	24	28	25	22
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	23	20
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	24	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20997	20997	20997
5°	21031	20254	20200
10°	20866	19492	19109
15°	20595	18551	17913
20°	20240	17528	16578
25°	19873	16464	15314
30°	19404	15332	13818
35°	18919	14221	12457
40°	18464	13014	10952
45°	17881	11834	9599
50°	17237	10573	8199
55°	16568	9223	6915
60°	15932	7839	5613
65°	15106	6420	4382
70°	14071	4854	3131
75°	12580	3287	2481
80°	10738	2285	1741
85°	8059	1234	911

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17881 cd/sqm

TEST NUMBER: P1032166

CATALOG NUMBER: S123RDIW-B1165D755UB35-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	2.4
10°-20°	510.1	6.8
20°-30°	734.5	9.8
30°-40°	827.2	11.0
40°-50°	791.2	10.6
50°-60°	647.7	8.6
60°-70°	436.7	5.8
70°-80°	219.0	2.9
80°-90°	59.3	0.8
90°-100°	35.7	0.5
100°-110°	172.5	2.3
110°-120°	422.8	5.6
120°-130°	536.7	7.2
130°-140°	573.4	7.7
140°-150°	536.2	7.2
150°-160°	432.5	5.8
160°-170°	279.1	3.7
170°-180°	96.2	1.3
0°-30°	1428.0	19.1
0°-40°	2255.2	30.1
0°-60°	3694.0	49.3
0°-90°	4409.0	58.8
90°-120°	631.0	8.4
90°-150°	2277.3	30.4
90°-180°	3085.0	41.2
0°-180°	7494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1951	1951	1951	1951	1951	
5°	1951	1943	1924	1938	1935	185
15°	1860	1843	1799	1791	1780	524
25°	1693	1653	1580	1547	1530	779
35°	1465	1408	1310	1242	1214	917
45°	1204	1133	1011	921	883	929
55°	914	837	702	611	579	820
65°	625	538	414	337	320	618
75°	331	255	168	152	149	352
85°	84	49	44	41	41	92
90°	1	8	18	21	23	8
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: P1032166

CATALOG NUMBER: S123RDIW-B1165D755UB35-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1950.7	1950.7	1950.7	1950.7	1950.7
2.5°	1958.6	1952.3	1933.3	1950.7	1947.5
5°	1950.7	1942.8	1923.8	1938.1	1934.9
7.5°	1936.5	1928.6	1904.8	1914.3	1909.6
10°	1917.5	1906.4	1877.9	1879.5	1871.6
12.5°	1890.6	1877.9	1841.5	1840.0	1830.5
15°	1860.5	1843.1	1798.8	1790.9	1779.8
17.5°	1824.1	1805.2	1749.8	1734.0	1718.1
20°	1783.0	1757.7	1697.6	1677.0	1658.0
22.5°	1737.1	1707.1	1642.2	1615.3	1597.9
25°	1692.8	1653.3	1580.5	1547.3	1529.9
27.5°	1639.0	1596.3	1517.2	1472.9	1446.0
30°	1583.7	1536.2	1447.6	1393.8	1368.5
32.5°	1528.3	1472.9	1378.0	1317.9	1291.0
35°	1465.0	1408.1	1310.0	1241.9	1213.5
37.5°	1401.7	1340.0	1237.2	1161.2	1126.4
40°	1341.6	1272.0	1159.7	1077.4	1041.0
42.5°	1273.6	1204.0	1086.9	995.1	963.5
45°	1204.0	1132.8	1011.0	920.8	882.8
47.5°	1135.9	1056.8	936.6	838.5	805.3
50°	1060.0	985.6	857.5	759.4	723.0
52.5°	992.0	909.7	783.1	680.3	648.7
55°	914.4	836.9	702.4	610.7	579.0
57.5°	844.8	761.0	624.9	537.9	511.0
60°	772.1	685.0	553.7	468.3	441.4
62.5°	699.3	612.3	481.0	401.8	373.4
65°	624.9	537.9	414.5	337.0	319.6
67.5°	550.6	462.0	341.7	283.2	264.2
70°	477.8	392.4	281.6	226.2	208.8
72.5°	405.0	321.2	223.1	180.4	175.6
75°	330.7	254.7	167.7	151.9	148.7
77.5°	262.6	193.0	131.3	121.8	118.7
80°	197.8	132.9	99.7	94.9	91.8
82.5°	136.1	82.3	71.2	66.4	66.4
85°	83.9	49.0	44.3	41.1	41.1
87.5°	38.0	20.6	20.6	19.0	17.4
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: P1032166

CATALOG NUMBER: S123RDIW-B1165D755UB35-4F0-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)