

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: P1012364

Luminaire Tested: S123RDIP-B1165D585UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012364
REPORT IS A COMBINATION OF REPORTS P993065 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D585UB35-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

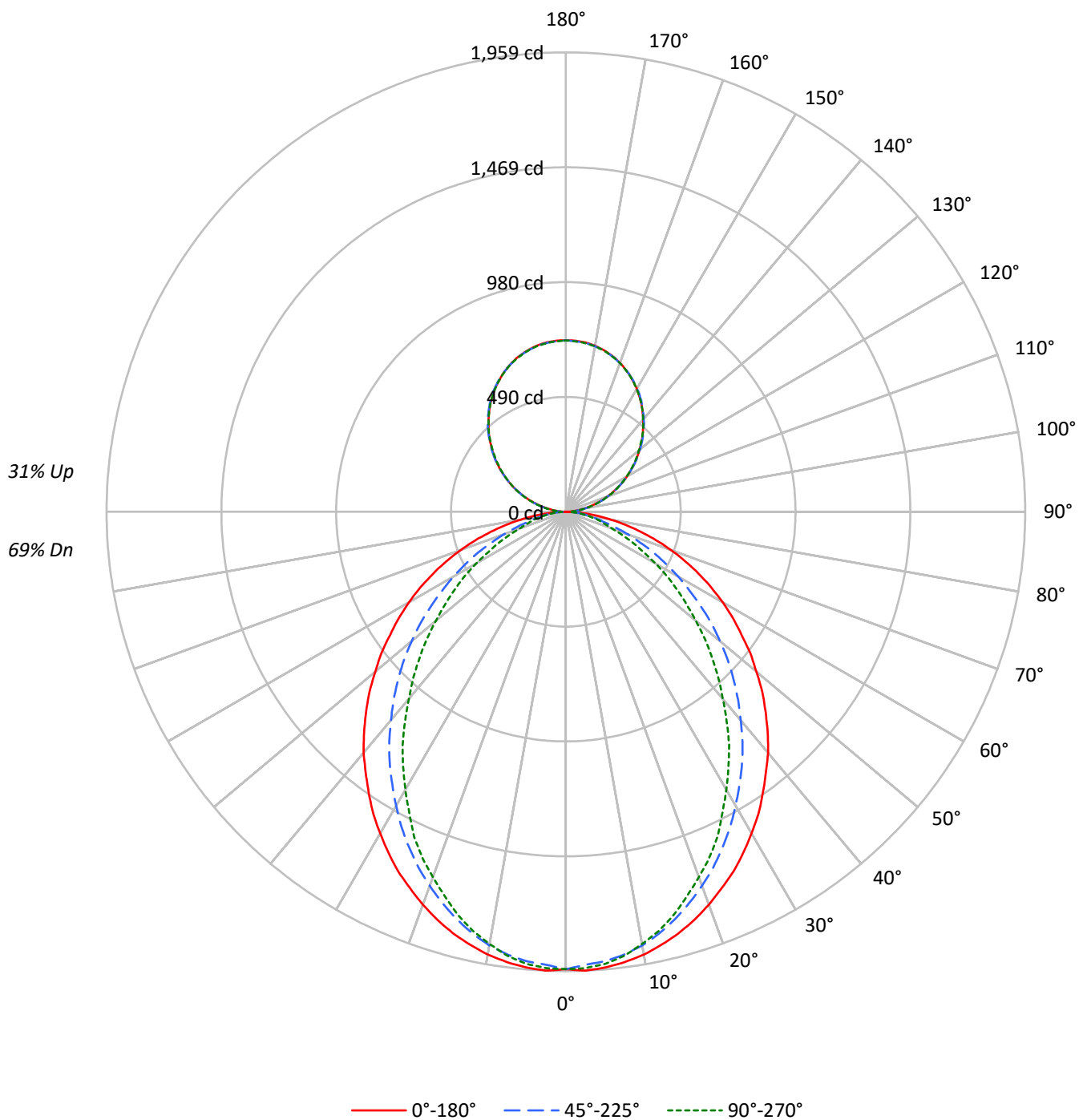
Lumens per Lamp: N/A
Luminaire Lumens: 6433.0 lumens
Efficiency: N/A
Efficacy: 83.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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: P1012364

CATALOG NUMBER: S123RDIP-B1165D585UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1012364

CATALOG NUMBER: S123RDIP-B1165D585UB35-4F0-XX-W2A-F1

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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73	69		
1	102	98	94	91	97	93	89	86	83	80	78	74	72	70	65	64	63	59		
2	94	86	80	75	88	82	76	72	73	69	65	65	62	59	58	56	54	50		
3	86	76	69	63	81	72	66	60	65	60	55	58	54	51	52	49	46	43		
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	37		
5	72	61	53	47	68	58	50	45	52	46	42	47	42	38	42	38	35	32		
6	67	55	47	41	63	52	45	39	47	41	37	43	38	34	38	34	31	29		
7	62	50	42	36	59	47	40	35	43	37	32	39	34	30	35	31	28	26		
8	58	45	37	32	55	43	36	31	39	33	29	36	31	27	32	28	25	23		
9	54	42	34	29	51	40	33	28	36	30	26	33	28	24	30	26	23	21		
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	28	24	21	19		

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: P1012364

CATALOG NUMBER: S123RDIP-B1165D585UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.4	2.9
10°-20°	510.1	7.9
20°-30°	734.5	11.4
30°-40°	827.2	12.9
40°-50°	791.2	12.3
50°-60°	647.7	10.1
60°-70°	436.7	6.8
70°-80°	219.0	3.4
80°-90°	58.8	0.9
90°-100°	47.0	0.7
100°-110°	142.4	2.2
110°-120°	242.3	3.8
120°-130°	318.8	5.0
130°-140°	358.4	5.6
140°-150°	352.3	5.5
150°-160°	296.6	4.6
160°-170°	197.5	3.1
170°-180°	69.1	1.1
0°-30°	1428.0	22.2
0°-40°	2255.2	35.1
0°-60°	3694.0	57.4
0°-90°	4408.5	68.5
90°-120°	431.8	6.7
90°-150°	1461.2	22.7
90°-180°	2024.0	31.5
0°-180°	6433.0	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	6	14	16	17	8
95°	34	38	42	45	45	37
105°	129	130	136	136	137	138
115°	244	246	244	245	244	241
125°	357	359	358	355	353	318
135°	463	467	466	464	463	357
145°	562	563	565	564	562	351
155°	643	643	644	646	642	296
165°	701	699	699	702	698	198
175°	729	727	727	730	726	69
180°	731	731	731	731	731	

TEST NUMBER: P1012364

CATALOG NUMBER: S123RDIP-B1165D585UB35-4F0-XX-W2A-F1

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°	0.6	6.3	13.8	16.1	17.2
92.5°	17.2	20.7	24.1	25.8	24.7
95°	33.9	37.9	42.5	44.8	44.8
97.5°	55.7	58.5	62.0	64.9	64.3
100°	78.1	81.5	84.4	86.1	87.2
102.5°	103.9	105.6	109.6	111.3	110.8
105°	129.1	130.3	135.5	135.5	136.6
107.5°	159.0	159.6	161.9	163.6	163.0
110°	186.5	187.7	188.8	191.1	190.0



TEST NUMBER: P1012364

CATALOG NUMBER: S123RDIP-B1165D585UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.2	215.8	215.8	218.7	218.7
115°	243.9	245.6	244.5	245.1	244.5
117.5°	273.2	273.8	272.6	272.6	270.9
120°	300.2	303.6	300.7	300.2	299.0
122.5°	328.3	330.6	329.4	327.7	326.0
125°	357.0	358.7	357.6	355.3	353.0
127.5°	383.4	386.8	385.7	382.2	380.0
130°	409.8	414.4	412.7	410.4	406.4
132.5°	436.2	440.8	439.6	436.8	433.9
135°	463.2	466.6	466.0	463.7	462.6
137.5°	487.9	490.7	492.4	489.6	487.9
140°	513.7	516.6	517.1	516.6	512.5
142.5°	537.2	540.1	541.2	540.7	537.8
145°	561.9	563.0	564.8	564.2	561.9
147.5°	583.1	585.4	587.1	587.1	583.7
150°	605.5	606.7	607.8	607.8	604.4
152.5°	623.9	625.6	626.2	627.3	624.5
155°	643.4	643.4	644.0	646.3	642.2
157.5°	660.0	659.5	660.0	662.3	658.9
160°	675.5	674.4	674.4	677.3	675.0
162.5°	689.3	687.6	688.2	691.0	687.0
165°	700.8	699.1	699.1	702.5	698.5
167.5°	710.5	708.3	708.8	712.3	708.8
170°	718.6	716.3	716.3	720.3	716.3
172.5°	724.9	722.6	722.6	726.0	722.0
175°	728.9	726.6	726.6	730.1	726.0
177.5°	731.2	728.9	728.9	732.4	728.3
180°	730.6	730.6	730.6	730.6	730.6

(END OF REPORT)