

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: P1010857

Luminaire Tested: S123RDIP-B1165D585UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010857
REPORT IS A COMBINATION OF REPORTS P993053 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1165D585UB2750-4F0-XX-W2A-F_4000K
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

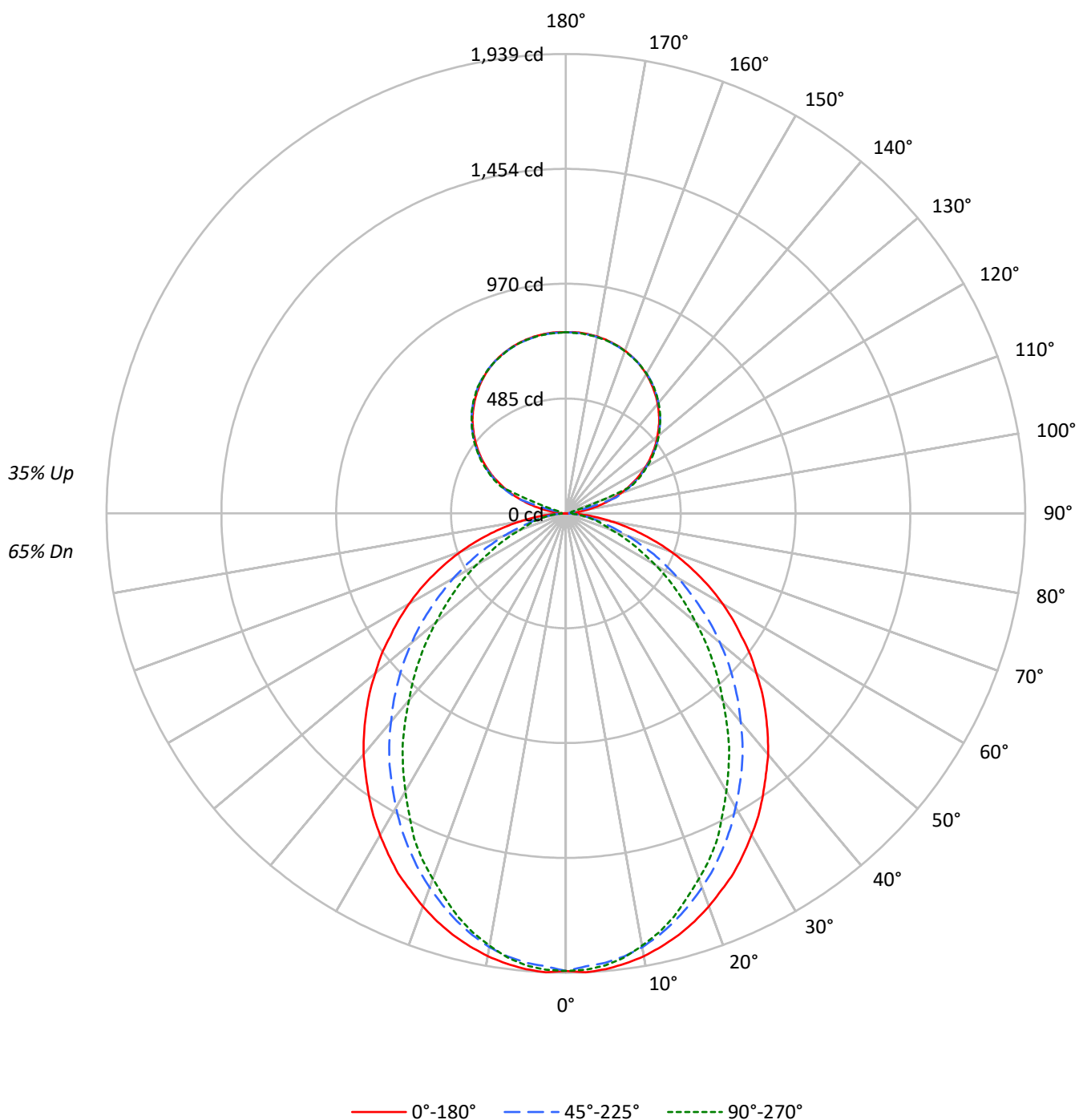
Lumens per Lamp: N/A
Luminaire Lumens: 6696.0 lumens
Efficiency: N/A
Efficacy: 87.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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: P1010857

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-F_4000K

Luminous Intensity Polar Plot



TEST NUMBER: P1010857

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-F_4000K

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	104	104	104	104	92	92	92	80	80	80	70	70	70
1	102	97	94	90	95	92	88	85	81	79	76	72	70	68	63	61	60
2	93	86	79	74	87	81	75	71	72	68	64	63	60	57	56	53	51
3	85	76	68	62	80	71	65	60	64	59	54	56	52	49	50	47	44
4	78	67	59	53	73	64	57	51	57	51	47	51	46	42	45	41	38
5	72	60	52	46	67	57	50	44	51	45	41	46	41	37	40	37	34
6	66	54	46	40	62	51	44	39	46	40	36	41	36	33	37	33	30
7	62	49	41	36	58	47	39	34	42	36	32	38	33	29	34	30	27
8	57	45	37	32	54	43	36	31	39	33	28	35	30	26	31	27	24
9	53	41	34	28	50	39	32	27	35	30	26	32	27	24	29	25	22
10	50	38	31	26	47	36	29	25	33	27	23	30	25	22	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	20787	20787	20787
5°	20821	20052	19998
10°	20657	19298	18918
15°	20390	18367	17735
20°	20038	17353	16413
25°	19675	16299	15161
30°	19210	15180	13680
35°	18731	14079	12332
40°	18279	12884	10842
45°	17701	11715	9503
50°	17064	10467	8117
55°	16403	9131	6847
60°	15771	7762	5557
65°	14956	6356	4338
70°	13929	4806	3101
75°	12454	3254	2456
80°	10630	2262	1722
85°	7973	1222	902

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17701 cd/sqm

TEST NUMBER: P1010857

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-F_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.5	2.7
10°-20°	505.0	7.5
20°-30°	727.2	10.9
30°-40°	818.9	12.2
40°-50°	783.3	11.7
50°-60°	641.2	9.6
60°-70°	432.3	6.5
70°-80°	216.8	3.2
80°-90°	58.2	0.9
90°-100°	27.0	0.4
100°-110°	130.4	1.9
110°-120°	319.5	4.8
120°-130°	405.6	6.1
130°-140°	433.3	6.5
140°-150°	405.2	6.1
150°-160°	326.8	4.9
160°-170°	210.9	3.1
170°-180°	72.7	1.1
0°-30°	1413.8	21.1
0°-40°	2232.6	33.3
0°-60°	3657.2	54.6
0°-90°	4364.5	65.2
90°-120°	476.9	7.1
90°-150°	1721.0	25.7
90°-180°	2331.0	34.8
0°-180°	6696.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1931	1923	1905	1919	1916	183
15°	1842	1825	1781	1773	1762	519
25°	1676	1637	1565	1532	1515	771
35°	1450	1394	1297	1230	1201	908
45°	1192	1122	1001	912	874	920
55°	905	829	695	605	573	812
65°	619	532	410	334	316	612
75°	327	252	166	150	147	349
85°	83	49	44	41	41	91
90°	1	6	14	16	17	7
95°	35	11	18	22	22	41
105°	169	176	124	24	25	180
115°	318	321	326	332	334	314
125°	448	452	454	456	457	400
135°	557	561	563	565	563	429
145°	643	647	648	649	649	403
155°	708	707	708	711	707	326
165°	747	746	745	749	746	211
175°	765	762	762	766	762	73
180°	765	765	765	765	765	

TEST NUMBER: P1010857

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-F_4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1931.2	1931.2	1931.2	1931.2	1931.2
2.5°	1939.1	1932.8	1914.0	1931.2	1928.1
5°	1931.2	1923.4	1904.6	1918.7	1915.6
7.5°	1917.1	1909.3	1885.8	1895.2	1890.5
10°	1898.3	1887.4	1859.2	1860.8	1852.9
12.5°	1871.7	1859.2	1823.2	1821.6	1812.2
15°	1842.0	1824.7	1780.9	1773.0	1762.1
17.5°	1805.9	1787.1	1732.3	1716.7	1701.0
20°	1765.2	1740.1	1680.6	1660.3	1641.5
22.5°	1719.8	1690.0	1625.8	1599.2	1582.0
25°	1675.9	1636.8	1564.7	1531.8	1514.6
27.5°	1622.7	1580.4	1502.1	1458.2	1431.6
30°	1567.9	1520.9	1433.2	1379.9	1354.8
32.5°	1513.0	1458.2	1364.2	1304.7	1278.1
35°	1450.4	1394.0	1296.9	1229.5	1201.3
37.5°	1387.7	1326.6	1224.8	1149.7	1115.2
40°	1328.2	1259.3	1148.1	1066.6	1030.6
42.5°	1260.9	1191.9	1076.0	985.2	953.9
45°	1191.9	1121.5	1000.9	911.6	874.0
47.5°	1124.6	1046.3	927.2	830.1	797.2
50°	1049.4	975.8	848.9	751.8	715.8
52.5°	982.1	900.6	775.3	673.5	642.2
55°	905.3	828.6	695.4	604.6	573.3
57.5°	836.4	753.4	618.7	532.5	505.9
60°	764.3	678.2	548.2	463.6	437.0
62.5°	692.3	606.2	476.2	397.8	369.6
65°	618.7	532.5	410.4	333.6	316.4
67.5°	545.1	457.4	338.3	280.4	261.6
70°	473.0	388.4	278.8	224.0	206.8
72.5°	401.0	318.0	220.8	178.6	173.9
75°	327.4	252.2	166.0	150.4	147.2
77.5°	260.0	191.1	130.0	120.6	117.5
80°	195.8	131.6	98.7	94.0	90.8
82.5°	134.7	81.4	70.5	65.8	65.8
85°	83.0	48.6	43.9	40.7	40.7
87.5°	37.6	20.4	20.4	18.8	17.2
90°	0.6	6.2	13.6	15.9	17.0
92.5°	13.1	9.7	14.8	18.7	19.3
95°	34.7	11.4	17.6	21.6	21.6
97.5°	63.1	47.2	18.2	22.7	23.3
100°	96.0	107.4	18.7	23.3	23.9
102.5°	133.5	140.9	42.0	23.3	24.4
105°	169.3	175.6	124.4	23.9	25.0
107.5°	207.4	212.5	221.0	133.5	59.1
110°	245.5	250.0	256.2	237.5	156.2

TEST NUMBER: P1010857

CATALOG NUMBER: S123RDIP-B1165D585UB2750-4F0-XX-W2A-F_4000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.8	285.8	292.0	297.2	296.0
115°	317.6	321.0	326.1	331.8	334.1
117.5°	352.8	356.8	359.7	364.2	364.8
120°	385.2	390.3	392.0	396.6	396.6
122.5°	418.2	422.2	424.4	427.3	427.8
125°	447.7	452.3	454.5	455.7	456.8
127.5°	477.3	481.8	484.7	486.4	485.2
130°	504.5	509.1	511.4	513.6	512.5
132.5°	530.7	535.2	536.9	539.2	537.5
135°	557.4	560.8	563.1	564.8	563.1
137.5°	580.1	584.7	585.8	588.6	587.5
140°	602.8	606.2	608.0	610.2	609.1
142.5°	623.9	627.3	629.0	630.7	629.0
145°	643.2	647.2	648.3	649.4	649.4
147.5°	661.9	664.8	665.9	667.0	664.2
150°	679.0	680.7	681.8	683.0	681.2
152.5°	694.3	694.9	695.5	697.7	694.9
155°	708.5	707.4	708.0	710.8	707.4
157.5°	719.9	719.9	719.3	722.7	718.2
160°	730.1	729.5	729.0	732.4	728.4
162.5°	739.8	738.1	737.5	741.5	738.1
165°	747.2	745.5	744.9	749.4	745.5
167.5°	753.4	751.1	751.1	755.7	751.1
170°	758.5	756.2	756.2	760.8	756.2
172.5°	761.9	759.1	759.7	764.2	759.1
175°	764.8	761.9	762.5	766.5	761.9
177.5°	765.9	763.1	763.6	768.2	762.5
180°	764.8	764.8	764.8	764.8	764.8

(END OF REPORT)