

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: P999311

Luminaire Tested: SA2XXRDIP-B1005D330UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999311
REPORT IS A COMBINATION OF REPORTS P987862 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D330UB27-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

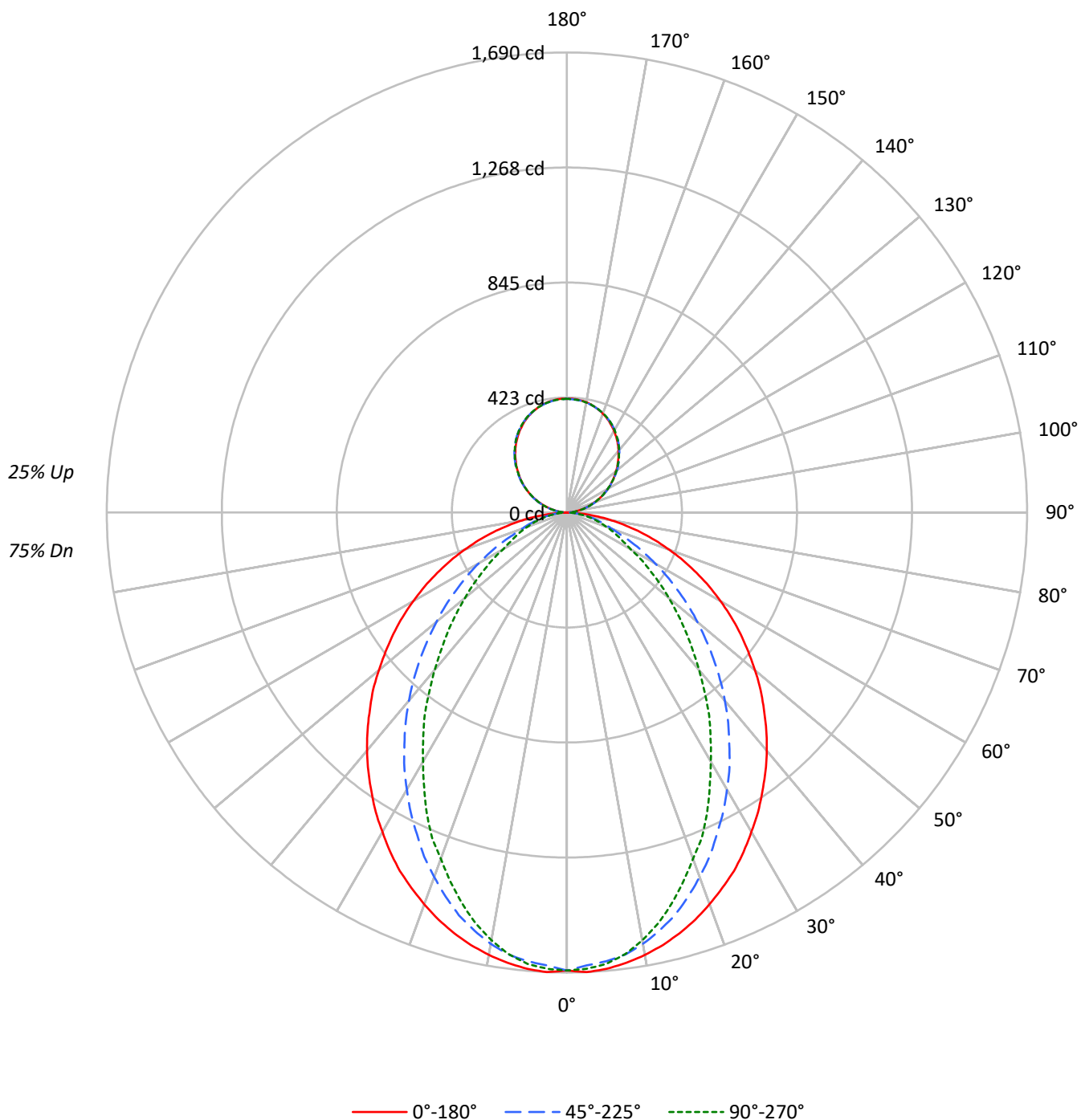
Lumens per Lamp: N/A
Luminaire Lumens: 4629.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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: P999311

CATALOG NUMBER: SA2XXRDIP-B1005D330UB27-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P999311

CATALOG NUMBER: SA2XXRDIP-B1005D330UB27-4F0-XX-W2A-F1

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	113	113	113	113	107	107	107	107	97	97	97	88	88	88	79	79	79
1	104	100	96	93	99	95	92	89	86	84	81	78	76	75	71	69	68
2	95	88	82	77	91	84	79	74	77	72	69	70	66	63	63	61	58
3	88	78	71	65	83	75	68	63	68	63	59	62	58	55	57	53	51
4	81	70	62	56	76	67	60	54	61	55	51	56	51	47	51	47	44
5	74	63	55	49	71	60	53	47	55	49	44	51	46	42	47	42	39
6	69	57	49	43	65	54	47	42	50	44	39	46	41	37	42	38	35
7	64	52	44	38	61	50	42	37	46	40	35	42	37	33	39	35	31
8	60	47	39	34	57	45	38	33	42	36	32	39	34	30	36	32	28
9	56	43	36	31	53	42	35	30	39	33	29	36	31	27	33	29	26
10	52	40	33	28	50	39	32	27	36	30	26	34	28	25	31	27	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26631	26631	26631
5°	26675	25336	25148
10°	26411	24030	23237
15°	26047	22487	21058
20°	25567	20734	18779
25°	25077	18934	16694
30°	24414	17182	14417
35°	23768	15415	12462
40°	23111	13678	10448
45°	22344	11888	8691
50°	21553	10159	7075
55°	20731	8433	5617
60°	19773	6744	4250
65°	18674	5141	3455
70°	17340	3730	2747
75°	15669	2845	2098
80°	13253	1926	1409
85°	9252	881	680

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22344 cd/sqm

TEST NUMBER: P999311

CATALOG NUMBER: SA2XXRDIP-B1005D330UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	3.4
10°-20°	432.8	9.4
20°-30°	607.7	13.1
30°-40°	662.4	14.3
40°-50°	608.8	13.2
50°-60°	478.1	10.3
60°-70°	311.2	6.7
70°-80°	160.2	3.5
80°-90°	42.1	0.9
90°-100°	25.8	0.6
100°-110°	82.1	1.8
110°-120°	140.6	3.0
120°-130°	184.8	4.0
130°-140°	207.5	4.5
140°-150°	203.5	4.4
150°-160°	170.7	3.7
160°-170°	113.2	2.4
170°-180°	39.6	0.9
0°-30°	1198.2	25.9
0°-40°	1860.7	40.2
0°-60°	2947.6	63.7
0°-90°	3461.2	74.8
90°-120°	248.5	5.4
90°-150°	844.4	18.2
90°-180°	1168.0	25.2
0°-180°	4629.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1682	1675	1655	1669	1664	160
15°	1600	1583	1532	1503	1488	451
25°	1452	1404	1303	1241	1218	668
35°	1252	1174	1040	944	910	783
45°	1023	921	761	653	617	790
55°	778	659	495	404	374	695
65°	525	402	265	213	209	521
75°	280	174	122	111	110	296
85°	66	34	29	29	29	75
90°	0	5	12	12	12	5
95°	18	22	23	23	22	20
105°	76	77	78	78	78	80
115°	141	143	142	142	141	139
125°	205	208	207	206	206	183
135°	265	269	270	270	269	205
145°	322	325	327	327	326	201
155°	368	369	370	372	371	170
165°	401	400	400	403	401	113
175°	417	416	415	418	416	40
180°	418	418	418	418	418	

TEST NUMBER: P999311

CATALOG NUMBER: SA2XXRDIP-B1005D330UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1682.4	1682.4	1682.4	1682.4	1682.4
2.5°	1690.0	1682.4	1665.6	1680.8	1677.8
5°	1682.4	1674.8	1655.0	1668.7	1664.1
7.5°	1668.7	1659.5	1638.2	1644.3	1636.7
10°	1650.4	1639.7	1609.3	1604.7	1595.6
12.5°	1627.6	1613.9	1572.7	1563.6	1546.9
15°	1600.1	1583.4	1531.6	1502.7	1487.5
17.5°	1568.2	1543.8	1479.9	1446.4	1422.0
20°	1531.6	1501.2	1425.1	1387.0	1353.5
22.5°	1492.1	1457.0	1368.7	1317.0	1294.1
25°	1452.5	1403.7	1303.3	1240.8	1218.0
27.5°	1405.3	1353.5	1242.4	1170.8	1135.8
30°	1355.0	1297.2	1175.4	1097.7	1056.6
32.5°	1306.3	1236.3	1111.4	1020.1	982.0
35°	1251.5	1173.8	1039.9	944.0	910.5
37.5°	1198.2	1114.5	972.9	867.8	829.8
40°	1141.9	1050.5	902.8	794.7	755.2
42.5°	1084.0	986.6	832.8	720.1	682.1
45°	1023.1	921.1	761.3	653.2	616.6
47.5°	965.3	857.2	692.7	584.6	551.1
50°	901.3	793.2	625.7	520.7	488.7
52.5°	838.9	724.7	561.8	461.3	432.4
55°	778.0	659.2	494.8	403.5	374.5
57.5°	715.6	593.8	435.4	350.2	325.8
60°	651.6	529.8	373.0	295.4	271.0
62.5°	589.2	467.4	319.7	246.6	234.5
65°	525.3	401.9	264.9	213.2	208.6
67.5°	464.4	341.0	213.2	187.3	182.7
70°	400.4	281.7	176.6	161.4	155.3
72.5°	339.5	226.9	147.7	135.5	132.5
75°	280.1	173.6	121.8	111.1	109.6
77.5°	220.8	123.3	95.9	89.8	86.8
80°	166.0	88.3	73.1	67.0	67.0
82.5°	115.7	59.4	50.2	47.2	47.2
85°	65.5	33.5	28.9	28.9	28.9
87.5°	24.4	12.2	12.2	10.7	10.7
90°	0.4	4.6	12.3	11.6	12.0
92.5°	7.8	10.6	10.9	11.3	11.3
95°	18.3	21.9	22.6	22.6	21.9
97.5°	30.7	33.8	35.2	35.2	35.2
100°	44.8	47.6	48.6	48.6	48.3
102.5°	59.6	61.7	63.1	63.4	63.1
105°	75.8	76.8	77.5	78.3	78.3
107.5°	92.0	93.4	93.4	93.8	92.0
110°	107.5	109.6	109.6	109.6	108.6



TEST NUMBER: P999311

CATALOG NUMBER: SA2XXRDIP-B1005D330UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	124.4	126.5	126.2	125.1	124.4
115°	141.0	143.1	142.4	142.1	141.0
117.5°	157.6	160.4	158.6	157.6	156.5
120°	174.1	176.9	174.1	174.1	173.1
122.5°	189.3	192.8	191.0	190.0	189.3
125°	205.1	208.3	207.3	206.2	205.9
127.5°	220.7	224.5	223.1	221.7	220.7
130°	235.1	239.7	239.0	238.3	236.9
132.5°	251.3	254.9	255.2	253.4	252.4
135°	265.4	269.3	270.0	269.7	268.6
137.5°	280.9	284.1	284.8	284.5	283.0
140°	294.7	297.9	299.6	299.6	298.2
142.5°	308.8	312.0	313.0	313.4	312.0
145°	322.2	324.6	326.8	327.1	325.7
147.5°	334.2	337.3	338.7	339.4	338.0
150°	346.5	348.6	350.0	351.1	350.0
152.5°	357.4	359.5	361.3	362.7	361.3
155°	368.4	369.4	370.5	372.2	371.2
157.5°	377.9	378.6	379.3	381.7	380.0
160°	386.3	387.0	387.4	389.5	388.1
162.5°	394.1	394.1	394.4	396.9	395.1
165°	400.8	400.4	400.4	402.9	401.1
167.5°	406.8	405.7	405.7	408.2	406.4
170°	411.4	410.3	409.9	412.4	410.3
172.5°	414.5	413.5	413.1	415.6	413.5
175°	417.0	415.9	415.2	417.7	415.6
177.5°	418.4	417.3	416.6	418.8	416.6
180°	417.7	417.7	417.7	417.7	417.7

(END OF REPORT)