

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: P1009777

Luminaire Tested: S122RDIP-B1005D925UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009777
REPORT IS A COMBINATION OF REPORTS P987983 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B1005D925UB27-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

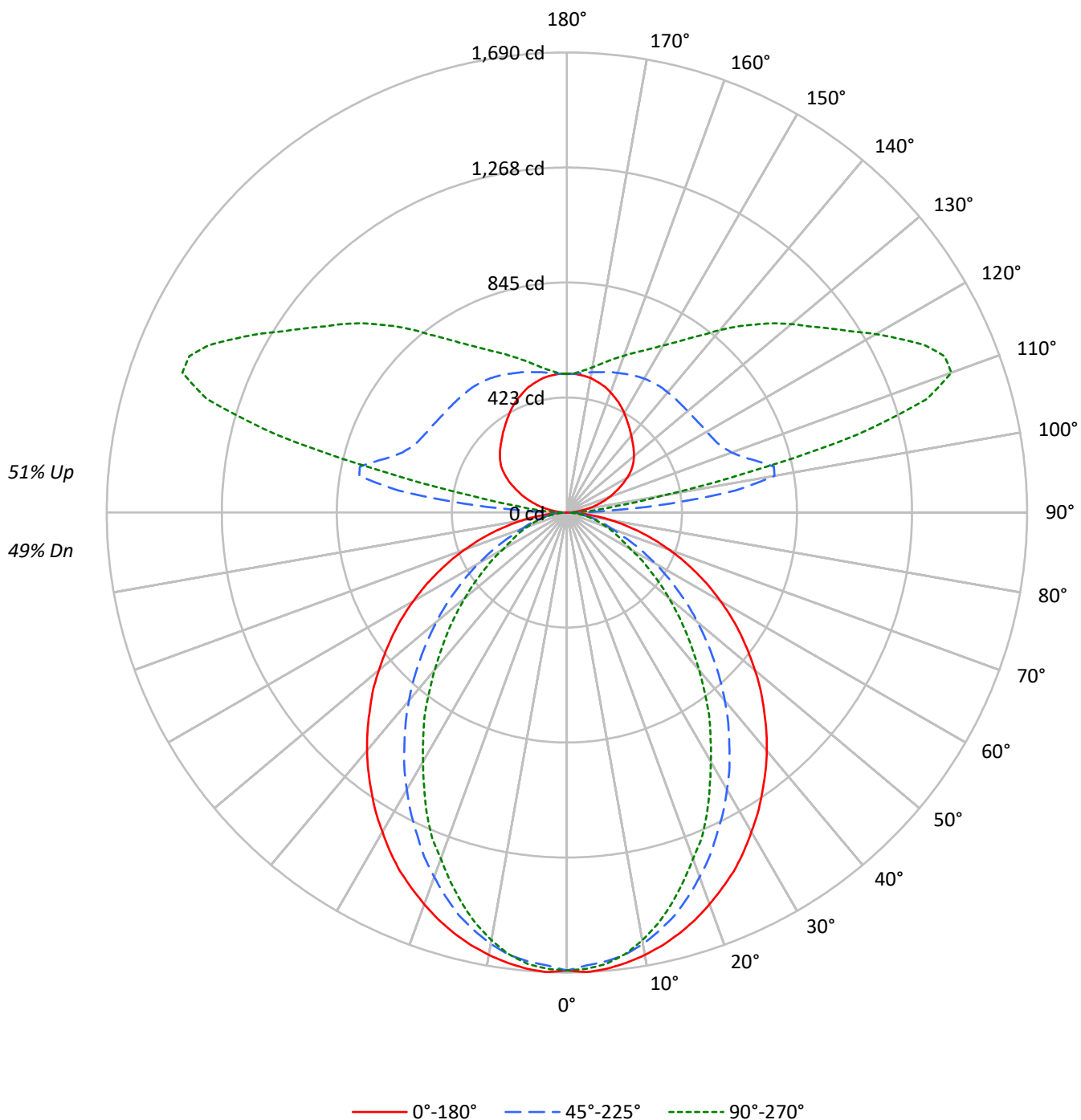
Lumens per Lamp: N/A
Luminaire Lumens: 7015.1 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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

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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	94	90	87	90	87	84	81	73	71	69	61	60	58	50	49	48
2	90	83	77	72	83	76	71	67	65	61	58	54	52	49	44	43	41
3	82	73	66	60	76	68	62	57	58	53	49	48	45	42	40	37	35
4	75	65	57	51	69	60	54	48	52	46	42	43	40	37	36	33	31
5	69	58	50	44	64	54	47	42	46	41	37	39	35	32	33	30	27
6	64	52	44	39	59	49	42	37	42	36	32	36	31	28	30	27	24
7	59	47	40	34	55	44	37	32	38	33	29	33	28	25	27	24	22
8	55	43	36	30	51	40	34	29	35	30	26	30	26	23	25	22	20
9	51	39	32	27	47	37	30	26	32	27	23	28	23	20	23	20	18
10	48	36	29	24	44	34	28	23	30	25	21	26	21	19	22	19	16

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.7	2.2
10°-20°	432.8	6.2
20°-30°	607.7	8.7
30°-40°	662.4	9.4
40°-50°	608.8	8.7
50°-60°	478.1	6.8
60°-70°	311.2	4.4
70°-80°	160.2	2.3
80°-90°	44.2	0.6
90°-100°	206.5	2.9
100°-110°	698.2	10.0
110°-120°	733.9	10.5
120°-130°	603.5	8.6
130°-140°	484.9	6.9
140°-150°	366.3	5.2
150°-160°	257.5	3.7
160°-170°	151.6	2.2
170°-180°	49.3	0.7
0°-30°	1198.2	17.1
0°-40°	1860.7	26.5
0°-60°	2947.6	42.0
0°-90°	3463.3	49.4
90°-120°	1638.5	23.4
90°-150°	3093.3	44.1
90°-180°	3552.0	50.6
0°-180°	7015.1	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°	1	13	33	32	32	6
95°	34	84	384	145	112	35
105°	120	180	726	1298	1104	127
115°	211	266	607	1254	1453	209
125°	294	348	584	1015	1179	261
135°	345	412	577	853	977	266
145°	394	453	574	713	780	247
155°	448	483	557	630	655	206
165°	488	503	534	566	575	138
175°	508	509	513	520	518	48
180°	509	509	509	509	509	

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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°	1.0	13.2	33.3	31.8	32.3
92.5°	14.7	46.5	150.9	69.6	59.8
95°	34.3	84.2	384.0	145.0	111.7
97.5°	50.9	111.2	626.0	291.0	187.1
100°	75.4	136.2	774.0	579.5	350.7
102.5°	98.0	158.7	778.8	979.7	683.8
105°	119.5	180.2	725.9	1297.6	1104.1
107.5°	143.0	201.8	677.0	1412.7	1387.2
110°	166.5	223.9	643.7	1394.1	1502.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.1	244.9	622.1	1330.9	1500.9
115°	210.6	266.0	607.4	1253.6	1452.9
117.5°	234.1	287.0	599.6	1179.5	1380.4
120°	255.7	307.6	592.7	1113.4	1310.8
122.5°	276.3	328.7	588.8	1062.0	1238.3
125°	293.9	347.8	583.9	1015.4	1178.6
127.5°	308.6	365.9	581.0	975.8	1122.7
130°	321.3	382.1	579.0	935.6	1076.7
132.5°	333.1	397.8	578.0	894.0	1028.7
135°	344.8	411.5	577.0	853.3	976.7
137.5°	355.6	423.2	577.0	812.2	926.8
140°	368.4	434.0	576.1	776.0	874.9
142.5°	381.1	442.8	576.1	741.2	822.9
145°	393.8	452.6	574.1	712.7	779.8
147.5°	407.5	460.4	571.2	687.8	741.6
150°	421.3	468.3	568.2	666.2	708.3
152.5°	435.0	476.2	563.3	648.0	679.9
155°	447.7	483.4	557.4	630.4	655.4
157.5°	458.5	489.4	551.6	613.8	633.9
160°	469.3	495.2	545.7	597.1	613.3
162.5°	480.0	499.6	540.8	581.4	593.7
165°	487.9	502.6	533.9	566.2	575.1
167.5°	494.7	505.6	528.1	552.6	557.4
170°	501.6	507.0	523.2	539.8	541.8
172.5°	505.5	508.4	517.3	528.6	529.0
175°	508.5	509.0	513.4	519.7	518.3
177.5°	510.4	509.4	509.4	513.4	510.4
180°	509.4	509.4	509.4	509.4	509.4

(END OF REPORT)