

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: P999351

Luminaire Tested: SA2XXRDIP-B1005D530UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P999351
REPORT IS A COMBINATION OF REPORTS P987902 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D530UB27-4F0-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

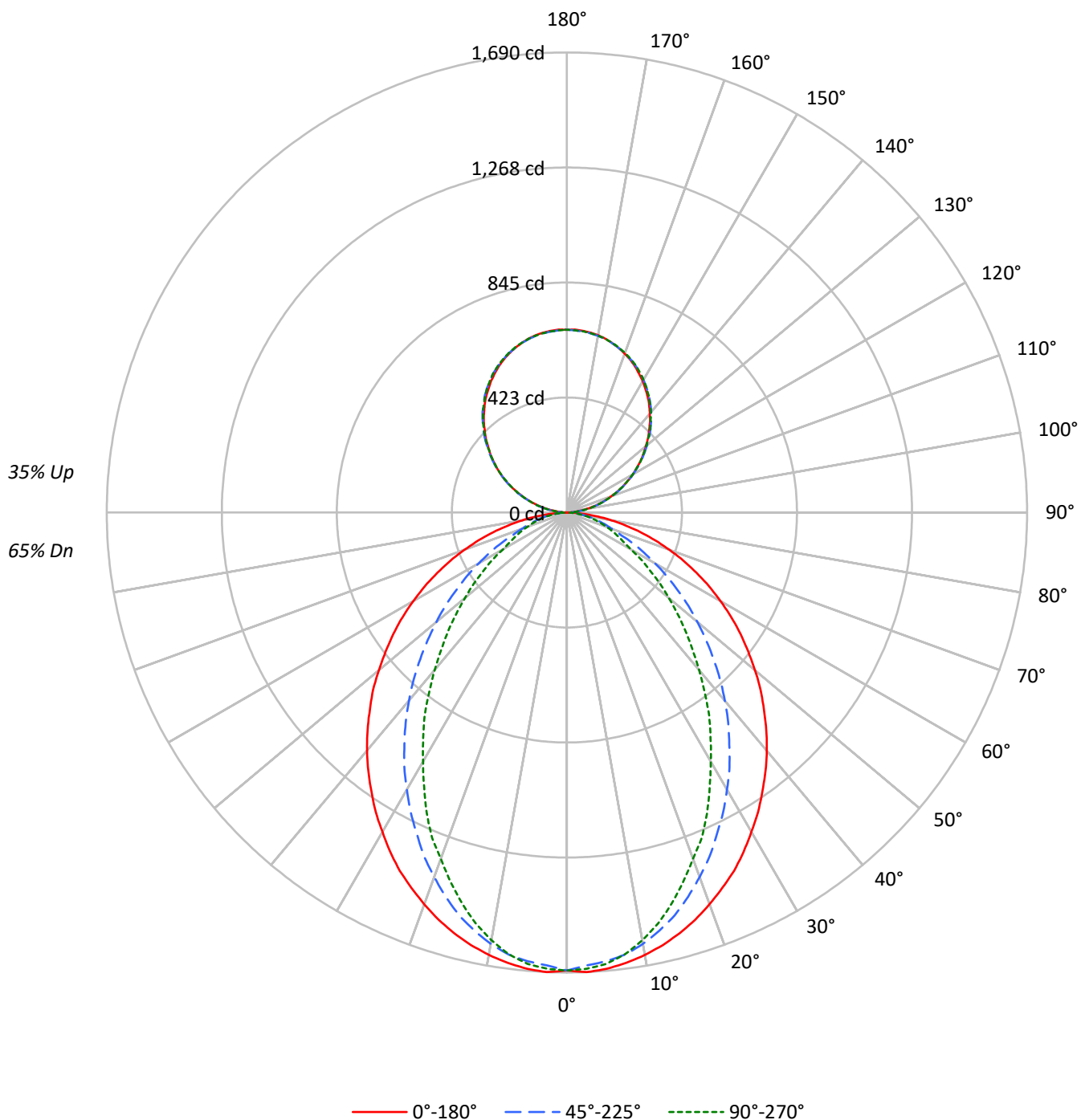
Lumens per Lamp: N/A
Luminaire Lumens: 5339.0 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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

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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	111	111	111	111		104	104	104	104		92	92	92		80	80	80		70	70	70
1	102	98	94	90		96	92	89	86		81	79	77		72	70	68		63	61	60
2	93	86	80	75		87	81	76	71		72	68	64		64	61	58		56	54	52
3	85	76	69	63		80	72	66	60		64	59	55		57	53	50		50	47	45
4	79	68	60	54		74	64	57	52		57	52	47		51	47	43		45	42	39
5	72	61	53	47		68	58	51	45		52	46	41		46	42	38		41	37	34
6	67	55	47	41		63	52	45	40		47	41	37		42	37	34		37	34	31
7	62	50	42	36		58	47	40	35		43	37	33		39	34	30		34	31	28
8	58	46	38	33		54	43	36	31		39	33	29		35	31	27		32	28	25
9	54	42	34	29		51	40	33	28		36	30	26		33	28	25		29	26	23
10	51	39	31	27		48	37	30	26		34	28	24		30	26	22		27	24	21

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	3.0
10°-20°	432.8	8.1
20°-30°	607.7	11.4
30°-40°	662.4	12.4
40°-50°	608.8	11.4
50°-60°	478.1	9.0
60°-70°	311.2	5.8
70°-80°	160.2	3.0
80°-90°	42.8	0.8
90°-100°	41.5	0.8
100°-110°	132.0	2.5
110°-120°	225.9	4.2
120°-130°	297.1	5.6
130°-140°	333.5	6.2
140°-150°	327.1	6.1
150°-160°	274.3	5.1
160°-170°	182.0	3.4
170°-180°	63.6	1.2
0°-30°	1198.2	22.4
0°-40°	1860.7	34.9
0°-60°	2947.6	55.2
0°-90°	3461.9	64.8
90°-120°	399.5	7.5
90°-150°	1357.2	25.4
90°-180°	1877.0	35.2
0°-180°	5339.0	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°	1	7	20	19	19	5
95°	30	35	36	36	35	33
105°	122	124	125	126	126	129
115°	227	230	229	228	227	224
125°	330	335	333	331	331	295
135°	427	433	434	433	432	330
145°	518	522	525	526	524	324
155°	592	594	596	598	597	273
165°	644	644	644	648	645	182
175°	670	669	667	671	668	64
180°	671	671	671	671	671	

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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°	0.6	7.4	19.8	18.7	19.3
92.5°	12.5	17.0	17.6	18.1	18.1
95°	29.5	35.1	36.3	36.3	35.1
97.5°	49.3	54.4	56.7	56.7	56.7
100°	72.0	76.5	78.2	78.2	77.6
102.5°	95.8	99.2	101.4	102.0	101.4
105°	121.8	123.5	124.6	125.8	125.8
107.5°	147.9	150.1	150.1	150.7	147.9
110°	172.8	176.2	176.2	176.2	174.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.0	203.4	202.8	201.1	200.0
115°	226.6	230.0	228.9	228.3	226.6
117.5°	253.3	257.8	255.0	253.3	251.6
120°	279.9	284.4	279.9	279.9	278.2
122.5°	304.3	309.9	307.1	305.4	304.3
125°	329.7	334.8	333.1	331.4	330.9
127.5°	354.7	360.9	358.6	356.4	354.7
130°	377.9	385.3	384.1	383.0	380.7
132.5°	404.0	409.6	410.2	407.4	405.7
135°	426.6	432.9	434.0	433.4	431.7
137.5°	451.6	456.7	457.8	457.2	455.0
140°	473.7	478.8	481.6	481.6	479.3
142.5°	496.3	501.4	503.1	503.7	501.4
145°	517.9	521.8	525.2	525.8	523.5
147.5°	537.1	542.2	544.5	545.6	543.3
150°	556.9	560.3	562.6	564.3	562.6
152.5°	574.5	577.9	580.7	583.0	580.7
155°	592.1	593.8	595.5	598.3	596.6
157.5°	607.4	608.5	609.6	613.6	610.8
160°	621.0	622.1	622.7	626.1	623.8
162.5°	633.4	633.4	634.0	638.0	635.1
165°	644.2	643.6	643.6	647.6	644.8
167.5°	653.8	652.1	652.1	656.1	653.3
170°	661.2	659.5	658.9	662.9	659.5
172.5°	666.3	664.6	664.0	668.0	664.6
175°	670.3	668.6	667.4	671.4	668.0
177.5°	672.5	670.8	669.7	673.1	669.7
180°	671.4	671.4	671.4	671.4	671.4

(END OF REPORT)