

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: P999453

Luminaire Tested: SA2XXRDIP-B1005D925UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999453
REPORT IS A COMBINATION OF REPORTS P988004 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D925UB35-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

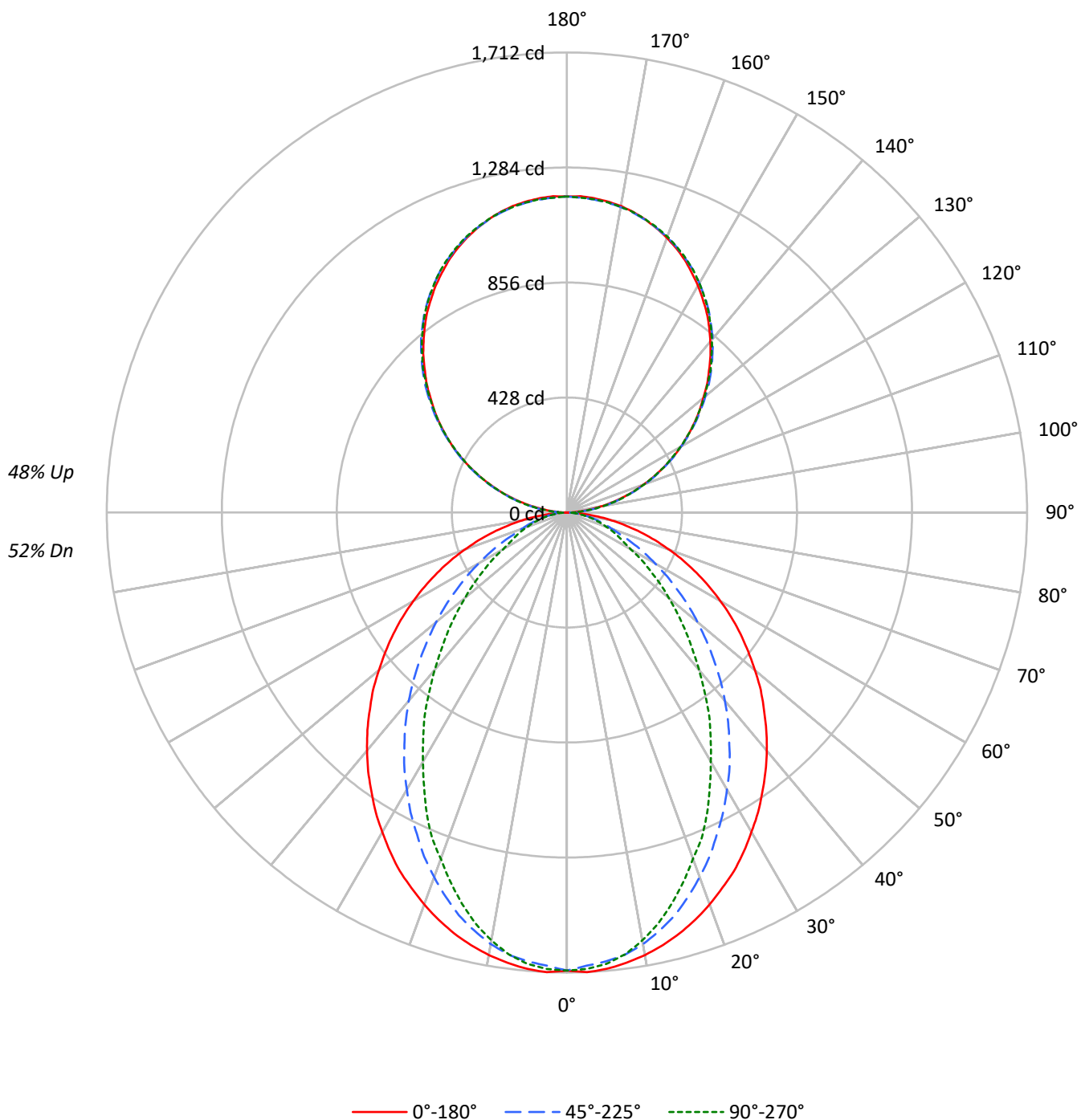
Lumens per Lamp: N/A
Luminaire Lumens: 6797.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58
1	99	94	91	87	91	88	84	81	75	72	70	63	61	60	52	51	50
2	90	83	77	72	83	77	72	68	66	62	59	56	53	51	46	44	43
3	83	73	66	61	76	68	62	57	59	54	50	50	46	43	41	39	37
4	76	65	58	52	70	61	54	49	52	47	43	45	41	38	37	34	32
5	70	59	51	45	64	55	48	42	47	42	38	40	36	33	34	31	28
6	64	53	45	39	60	49	42	37	43	37	33	37	32	29	31	28	25
7	60	48	40	35	55	45	38	33	39	33	29	33	29	26	28	25	23
8	56	43	36	31	51	41	34	29	36	30	26	31	26	23	26	23	20
9	52	40	32	28	48	37	31	26	33	27	24	28	24	21	24	21	19
10	48	37	30	25	45	34	28	24	30	25	21	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26984	26984	26984
5°	27028	25673	25482
10°	26762	24349	23545
15°	26394	22786	21338
20°	25908	21009	19029
25°	25410	19186	16916
30°	24739	17410	14609
35°	24083	15619	12627
40°	23419	13860	10586
45°	22642	12045	8806
50°	21840	10295	7169
55°	21005	8545	5692
60°	20037	6834	4306
65°	18919	5209	3501
70°	17570	3780	2785
75°	15881	2882	2126
80°	13429	1953	1427
85°	9365	893	689

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 22642 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.8	2.4
10°-20°	438.6	6.5
20°-30°	615.8	9.1
30°-40°	671.2	9.9
40°-50°	616.9	9.1
50°-60°	484.5	7.1
60°-70°	315.4	4.6
70°-80°	162.4	2.4
80°-90°	44.8	0.7
90°-100°	72.7	1.1
100°-110°	231.3	3.4
110°-120°	395.7	5.8
120°-130°	520.4	7.7
130°-140°	584.1	8.6
140°-150°	572.8	8.4
150°-160°	480.5	7.1
160°-170°	318.7	4.7
170°-180°	111.4	1.6
0°-30°	1214.2	17.9
0°-40°	1885.4	27.7
0°-60°	2986.8	43.9
0°-90°	3509.3	51.6
90°-120°	699.7	10.3
90°-150°	2377.1	35.0
90°-180°	3288.0	48.4
0°-180°	6797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1705	1705	1705	1705	1705	
5°	1705	1697	1677	1691	1686	162
15°	1621	1604	1552	1523	1507	457
25°	1472	1422	1321	1257	1234	677
35°	1268	1190	1054	956	923	794
45°	1037	933	771	662	625	801
55°	788	668	501	409	380	704
65°	532	407	268	216	211	528
75°	284	176	123	113	111	300
85°	66	34	29	29	29	76
90°	1	13	35	33	34	7
95°	52	62	64	64	62	58
105°	213	216	218	220	220	225
115°	397	403	401	400	397	393
125°	578	586	584	580	580	516
135°	747	758	760	759	756	577
145°	907	914	920	921	917	567
155°	1037	1040	1043	1048	1045	477
165°	1128	1127	1127	1134	1129	318
175°	1174	1171	1169	1176	1170	112
180°	1176	1176	1176	1176	1176	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1704.7	1704.7	1704.7	1704.7	1704.7
2.5°	1712.4	1704.7	1687.8	1703.2	1700.1
5°	1704.7	1697.0	1677.0	1690.8	1686.2
7.5°	1690.8	1681.6	1660.0	1666.2	1658.4
10°	1672.3	1661.5	1630.7	1626.1	1616.8
12.5°	1649.2	1635.3	1593.7	1584.4	1567.4
15°	1621.4	1604.5	1552.0	1522.7	1507.3
17.5°	1589.0	1564.3	1499.5	1465.6	1440.9
20°	1552.0	1521.1	1444.0	1405.4	1371.5
22.5°	1511.9	1476.4	1386.9	1334.5	1311.3
25°	1471.8	1422.4	1320.6	1257.3	1234.2
27.5°	1424.0	1371.5	1258.9	1186.4	1150.9
30°	1373.0	1314.4	1191.0	1112.3	1070.7
32.5°	1323.7	1252.7	1126.2	1033.6	995.1
35°	1268.1	1189.5	1053.7	956.5	922.6
37.5°	1214.1	1129.3	985.8	879.4	840.8
40°	1157.1	1064.5	914.8	805.3	765.2
42.5°	1098.4	999.7	843.9	729.7	691.1
45°	1036.7	933.4	771.4	661.8	624.8
47.5°	978.1	868.6	701.9	592.4	558.5
50°	913.3	803.8	634.1	527.6	495.2
52.5°	850.1	734.3	569.3	467.5	438.1
55°	788.3	668.0	501.4	408.8	379.5
57.5°	725.1	601.7	441.2	354.8	330.1
60°	660.3	536.9	378.0	299.3	274.6
62.5°	597.0	473.6	324.0	249.9	237.6
65°	532.2	407.3	268.4	216.0	211.4
67.5°	470.5	345.6	216.0	189.8	185.1
70°	405.7	285.4	179.0	163.5	157.4
72.5°	344.0	229.9	149.6	137.3	134.2
75°	283.9	175.9	123.4	112.6	111.1
77.5°	223.7	125.0	97.2	91.0	87.9
80°	168.2	89.5	74.1	67.9	67.9
82.5°	117.2	60.2	50.9	47.8	47.8
85°	66.3	33.9	29.3	29.3	29.3
87.5°	24.7	12.3	12.3	10.8	10.8
90°	1.0	12.9	34.7	32.7	33.7
92.5°	21.8	29.8	30.8	31.8	31.8
95°	51.6	61.5	63.5	63.5	61.5
97.5°	86.3	95.3	99.2	99.2	99.2
100°	126.0	134.0	136.9	136.9	136.0
102.5°	167.7	173.7	177.6	178.6	177.6
105°	213.4	216.3	218.3	220.3	220.3
107.5°	259.0	263.0	263.0	264.0	259.0
110°	302.7	308.6	308.6	308.6	305.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	350.3	356.2	355.3	352.3	350.3
115°	396.9	402.9	400.9	399.9	396.9
117.5°	443.6	451.5	446.6	443.6	440.6
120°	490.2	498.2	490.2	490.2	487.2
122.5°	532.9	542.8	537.8	534.9	532.9
125°	577.5	586.5	583.5	580.5	579.5
127.5°	621.2	632.1	628.2	624.2	621.2
130°	661.9	674.8	672.8	670.8	666.9
132.5°	707.5	717.5	718.5	713.5	710.5
135°	747.2	758.1	760.1	759.1	756.2
137.5°	790.9	799.8	801.8	800.8	796.8
140°	829.6	838.5	843.5	843.5	839.5
142.5°	869.3	878.2	881.2	882.2	878.2
145°	907.0	913.9	919.9	920.9	916.9
147.5°	940.7	949.7	953.6	955.6	951.7
150°	975.5	981.4	985.4	988.4	985.4
152.5°	1006.2	1012.2	1017.1	1021.1	1017.1
155°	1037.0	1040.0	1042.9	1047.9	1044.9
157.5°	1063.8	1065.8	1067.8	1074.7	1069.7
160°	1087.6	1089.6	1090.6	1096.5	1092.6
162.5°	1109.4	1109.4	1110.4	1117.4	1112.4
165°	1128.3	1127.3	1127.3	1134.2	1129.3
167.5°	1145.2	1142.2	1142.2	1149.1	1144.2
170°	1158.1	1155.1	1154.1	1161.0	1155.1
172.5°	1167.0	1164.0	1163.0	1170.0	1164.0
175°	1173.9	1171.0	1169.0	1175.9	1170.0
177.5°	1177.9	1174.9	1172.9	1178.9	1172.9
180°	1175.9	1175.9	1175.9	1175.9	1175.9

(END OF REPORT)