

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: P999400

Luminaire Tested: SA2XXRDIP-B1005D725UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999400
REPORT IS A COMBINATION OF REPORTS P987951 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D725UB2750-4F0-XX-W2A-F_3500K
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

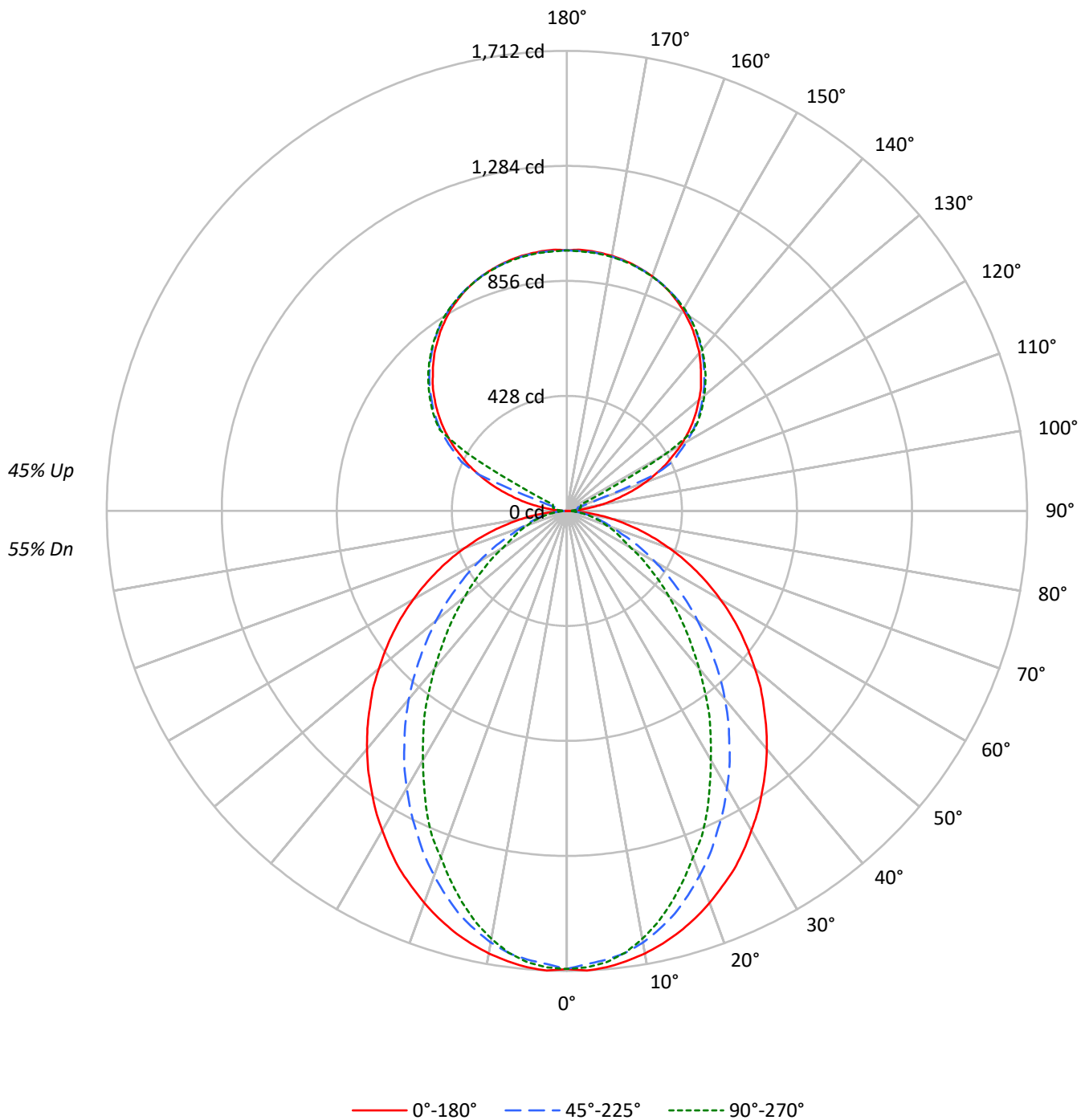
Lumens per Lamp: N/A
Luminaire Lumens: 6350.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 82.4
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	50	30	10
RCR																				
0	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61			55
1	99	95	92	88	92	89	86	83	76	74	72	65	63	62	55	54	53			48
2	91	84	78	73	84	78	73	69	68	64	60	58	55	53	49	47	45			41
3	83	74	67	61	77	69	63	58	60	55	51	52	48	45	44	41	39			35
4	77	66	58	52	71	62	55	50	54	49	44	46	42	39	39	36	34			31
5	71	59	51	45	65	55	48	43	48	43	39	42	38	34	36	33	30			27
6	65	53	45	40	60	50	43	38	44	38	34	38	34	30	33	29	27			24
7	60	48	41	35	56	45	38	33	40	34	30	35	30	27	30	27	24			21
8	56	44	36	31	52	41	35	30	37	31	27	32	28	24	28	24	22			19
9	52	40	33	28	49	38	31	27	34	28	24	30	25	22	26	22	20			18
10	49	37	30	25	46	35	29	24	31	26	22	27	23	20	24	20	18			16

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	2.5
10°-20°	438.6	6.9
20°-30°	615.8	9.7
30°-40°	671.2	10.6
40°-50°	616.9	9.7
50°-60°	484.5	7.6
60°-70°	315.4	5.0
70°-80°	162.4	2.6
80°-90°	43.2	0.7
90°-100°	32.0	0.5
100°-110°	119.2	1.9
110°-120°	316.1	5.0
120°-130°	524.2	8.3
130°-140°	556.8	8.8
140°-150°	517.5	8.2
150°-160°	416.1	6.6
160°-170°	268.1	4.2
170°-180°	92.3	1.5
0°-30°	1214.2	19.1
0°-40°	1885.4	29.7
0°-60°	2986.8	47.0
0°-90°	3507.7	55.2
90°-120°	467.2	7.4
90°-150°	2065.8	32.5
90°-180°	2842.0	44.8
0°-180°	6350.0	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	8	14	18	19	6
95°	46	22	27	31	30	54
105°	213	234	43	50	53	228
115°	403	415	433	108	58	397
125°	570	580	593	598	600	509
135°	706	717	723	730	729	545
145°	819	818	830	835	831	512
155°	902	895	904	908	902	415
165°	950	946	948	953	948	268
175°	972	967	968	973	966	92
180°	970	970	970	970	970	

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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°	0.7	8.4	14.0	17.5	18.9
92.5°	17.5	14.7	16.8	18.2	18.9
95°	45.6	22.4	27.4	30.9	30.2
97.5°	82.1	24.6	35.8	37.9	38.6
100°	124.2	28.1	40.0	45.6	47.0
102.5°	170.5	169.1	41.4	49.1	51.2
105°	213.3	234.3	42.8	50.5	53.3
107.5°	263.1	280.6	44.2	51.9	54.7
110°	310.8	325.5	122.8	52.6	55.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	355.7	368.3	356.4	54.0	56.1
115°	403.4	415.3	432.8	108.0	57.5
117.5°	444.8	458.8	470.7	370.4	186.6
120°	491.1	501.6	514.2	522.6	427.9
122.5°	530.4	541.6	555.6	559.8	560.5
125°	570.3	579.5	592.8	597.7	599.8
127.5°	606.8	616.6	627.2	634.2	634.9
130°	641.2	652.4	660.1	667.9	667.2
132.5°	676.3	685.4	693.1	699.4	698.7
135°	705.7	717.0	723.3	730.3	728.9
137.5°	736.6	745.0	752.0	759.1	757.0
140°	766.8	772.4	780.1	786.4	782.9
142.5°	792.0	796.9	806.1	811.7	808.2
145°	818.7	818.0	829.9	834.8	831.3
147.5°	841.8	839.7	851.7	855.2	852.4
150°	864.3	859.4	870.6	874.8	871.3
152.5°	883.2	877.6	888.1	892.4	887.4
155°	901.5	895.2	903.6	907.8	902.2
157.5°	916.2	910.6	916.9	921.8	916.2
160°	928.8	924.6	928.8	933.0	928.1
162.5°	940.1	935.8	939.4	944.3	938.0
165°	949.9	945.7	947.8	952.7	947.8
167.5°	957.6	953.4	955.5	960.4	954.1
170°	963.9	959.7	961.1	966.0	959.7
172.5°	968.1	963.9	965.3	970.2	963.9
175°	971.6	966.7	968.1	973.0	966.0
177.5°	973.0	968.1	968.8	973.7	967.4
180°	969.5	969.5	969.5	969.5	969.5

(END OF REPORT)