

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: P999333

Luminaire Tested: SA2XXRDIP-B1005D330UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999333
REPORT IS A COMBINATION OF REPORTS P987884 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B1005D330UB35-4F0-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

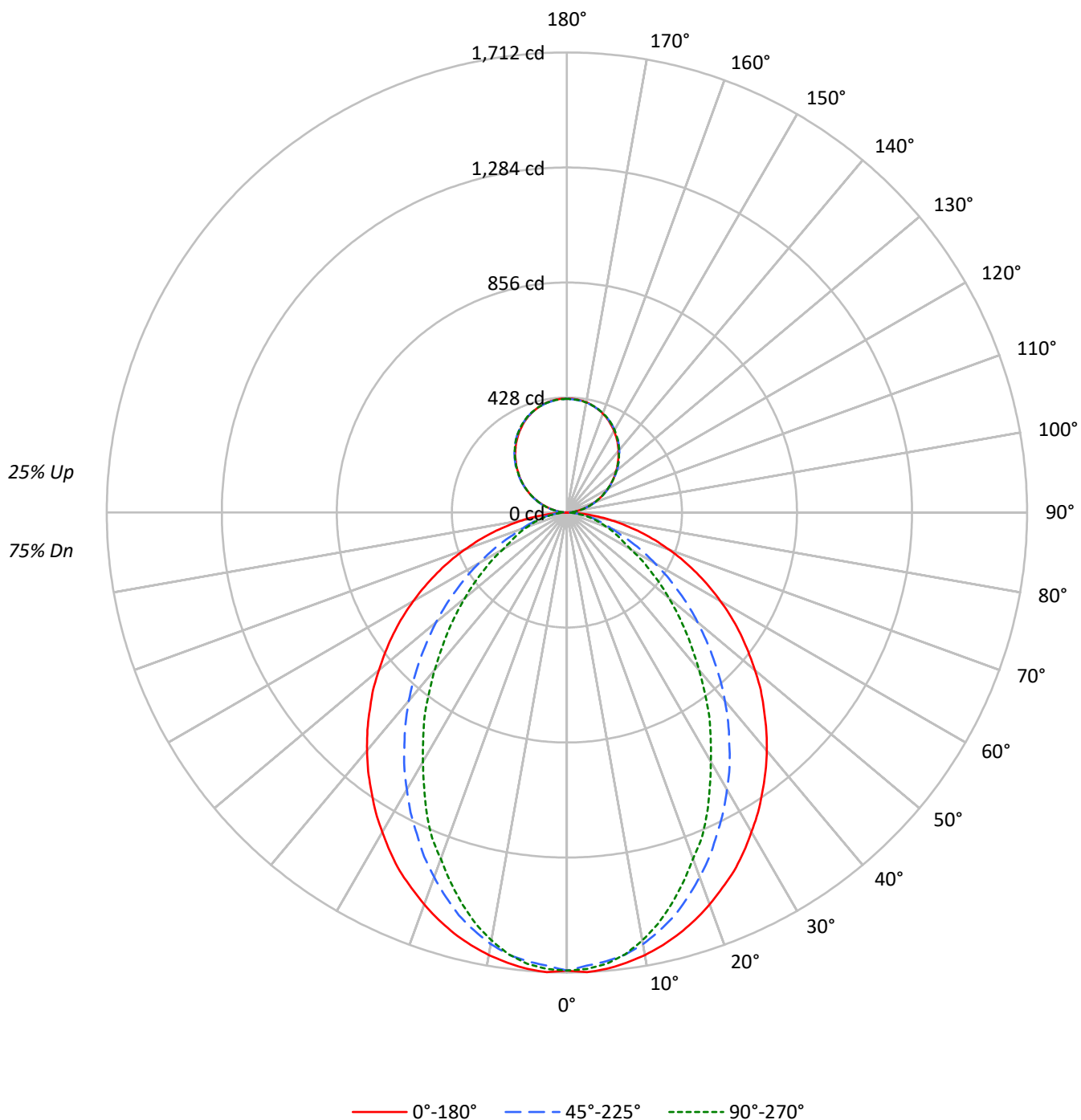
Lumens per Lamp: N/A
Luminaire Lumens: 4690.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	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	43	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°	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	3.4
10°-20°	438.6	9.4
20°-30°	615.8	13.1
30°-40°	671.2	14.3
40°-50°	616.9	13.2
50°-60°	484.5	10.3
60°-70°	315.4	6.7
70°-80°	162.4	3.5
80°-90°	42.7	0.9
90°-100°	26.2	0.6
100°-110°	83.2	1.8
110°-120°	142.4	3.0
120°-130°	187.2	4.0
130°-140°	210.2	4.5
140°-150°	206.1	4.4
150°-160°	172.9	3.7
160°-170°	114.7	2.4
170°-180°	40.1	0.9
0°-30°	1214.2	25.9
0°-40°	1885.4	40.2
0°-60°	2986.8	63.7
0°-90°	3507.2	74.8
90°-120°	251.7	5.4
90°-150°	855.2	18.2
90°-180°	1183.0	25.2
0°-180°	4690.0	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°	0	5	12	12	12	5
95°	19	22	23	23	22	21
105°	77	78	78	79	79	81
115°	143	145	144	144	143	141
125°	208	211	210	209	208	186
135°	269	273	274	273	272	208
145°	326	329	331	331	330	204
155°	373	374	375	377	376	172
165°	406	406	406	408	406	115
175°	422	421	421	423	421	40
180°	423	423	423	423	423	

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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°	0.4	4.6	12.5	11.8	12.1
92.5°	7.9	10.7	11.1	11.4	11.4
95°	18.6	22.1	22.8	22.8	22.1
97.5°	31.1	34.3	35.7	35.7	35.7
100°	45.3	48.2	49.3	49.3	48.9
102.5°	60.3	62.5	63.9	64.3	63.9
105°	76.8	77.8	78.5	79.3	79.3
107.5°	93.2	94.6	94.6	95.0	93.2
110°	108.9	111.0	111.0	111.0	110.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.0	128.2	127.8	126.7	126.0
115°	142.8	144.9	144.2	143.9	142.8
117.5°	159.6	162.4	160.7	159.6	158.5
120°	176.4	179.2	176.4	176.4	175.3
122.5°	191.7	195.3	193.5	192.4	191.7
125°	207.8	211.0	209.9	208.9	208.5
127.5°	223.5	227.4	226.0	224.6	223.5
130°	238.1	242.8	242.1	241.3	239.9
132.5°	254.6	258.1	258.5	256.7	255.6
135°	268.8	272.8	273.5	273.1	272.0
137.5°	284.5	287.8	288.5	288.1	286.7
140°	298.5	301.7	303.5	303.5	302.0
142.5°	312.7	316.0	317.0	317.4	316.0
145°	326.3	328.8	331.0	331.3	329.9
147.5°	338.4	341.7	343.1	343.8	342.4
150°	350.9	353.1	354.5	355.6	354.5
152.5°	362.0	364.2	365.9	367.4	365.9
155°	373.1	374.1	375.2	377.0	375.9
157.5°	382.7	383.4	384.1	386.6	384.9
160°	391.3	392.0	392.4	394.5	393.1
162.5°	399.1	399.1	399.5	402.0	400.2
165°	405.9	405.6	405.6	408.1	406.3
167.5°	412.0	410.9	410.9	413.4	411.6
170°	416.6	415.6	415.2	417.7	415.6
172.5°	419.8	418.8	418.4	420.9	418.8
175°	422.3	421.3	420.6	423.1	420.9
177.5°	423.8	422.7	422.0	424.1	422.0
180°	423.1	423.1	423.1	423.1	423.1

(END OF REPORT)