

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: P999334

Luminaire Tested: SA2XXRDIP-B1005D330UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P999334
REPORT IS A COMBINATION OF REPORTS P987885 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-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

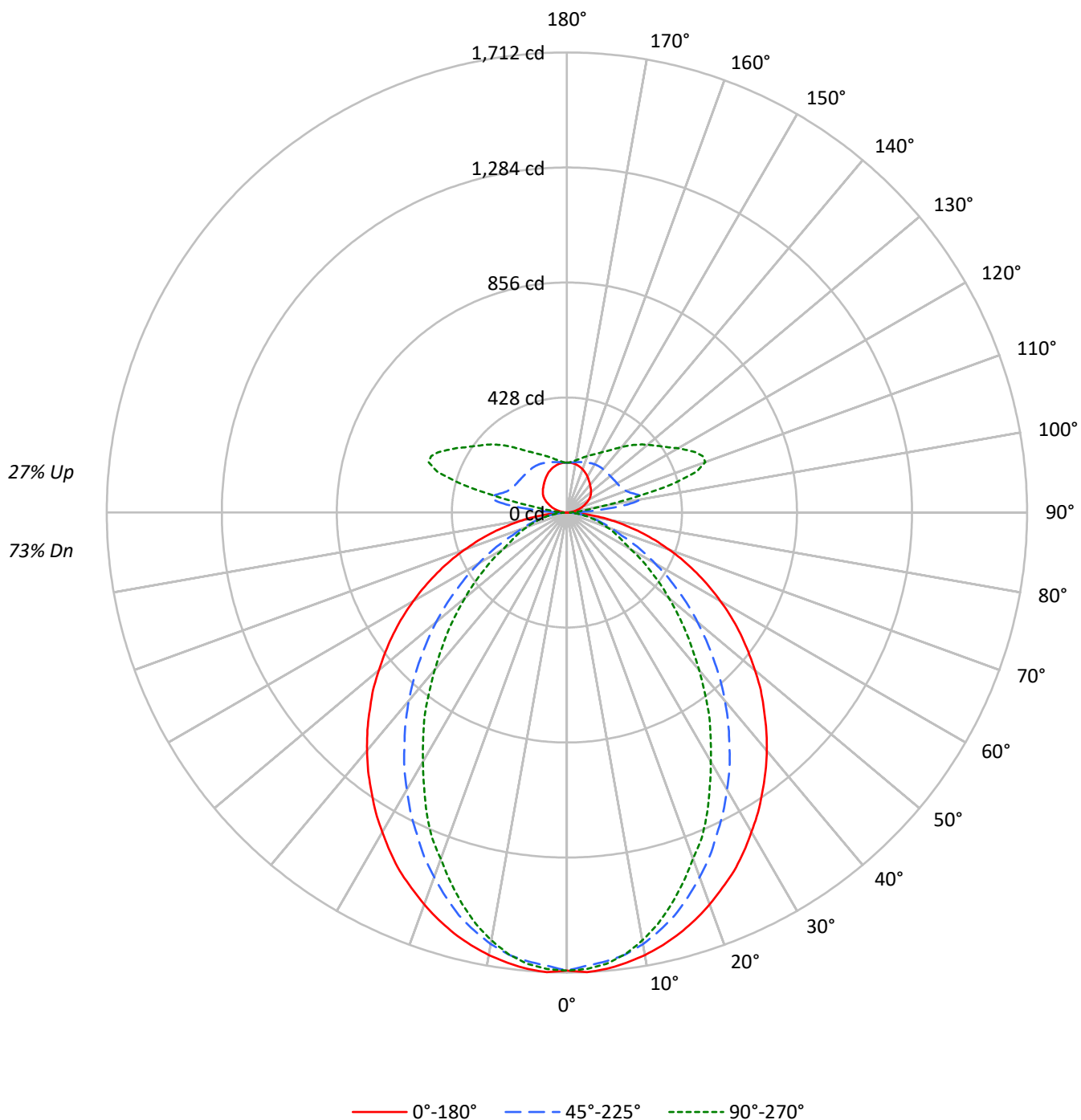
Lumens per Lamp: N/A
Luminaire Lumens: 4801.5 lumens
Efficiency: N/A
Efficacy: 68.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	96	96	96	86	86	86	77	77	77
1	104	99	96	92	98	95	91	88	85	83	81	77	75	73	69	68	67
2	95	88	82	77	90	84	78	74	76	72	68	69	65	62	62	60	57
3	87	78	71	65	83	74	68	62	68	62	58	61	57	54	56	52	50
4	80	69	62	56	76	66	59	54	61	55	50	55	51	47	50	46	43
5	74	62	54	48	70	60	52	47	55	49	44	50	45	41	46	42	38
6	68	56	48	42	65	54	47	41	50	43	39	45	40	36	42	37	34
7	64	51	43	38	60	49	42	37	45	39	35	42	36	33	38	34	31
8	59	47	39	34	56	45	38	33	42	35	31	38	33	29	35	31	28
9	55	43	36	30	53	41	34	30	38	32	28	35	30	27	33	28	25
10	52	40	33	28	49	38	32	27	36	30	26	33	28	24	30	26	23

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	3.3
10°-20°	438.6	9.1
20°-30°	615.8	12.8
30°-40°	671.2	14.0
40°-50°	616.9	12.8
50°-60°	484.5	10.1
60°-70°	315.4	6.6
70°-80°	162.4	3.4
80°-90°	42.6	0.9
90°-100°	75.3	1.6
100°-110°	254.4	5.3
110°-120°	267.4	5.6
120°-130°	219.9	4.6
130°-140°	176.7	3.7
140°-150°	133.5	2.8
150°-160°	93.9	2.0
160°-170°	55.3	1.2
170°-180°	18.0	0.4
0°-30°	1214.2	25.3
0°-40°	1885.4	39.3
0°-60°	2986.8	62.2
0°-90°	3507.2	73.0
90°-120°	597.1	12.4
90°-150°	1127.2	23.5
90°-180°	1294.0	27.0
0°-180°	4801.5	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	4
95°	12	31	140	53	41	13
105°	44	66	264	473	402	46
115°	77	97	221	457	529	76
125°	107	127	213	370	430	95
135°	126	150	210	311	356	97
145°	144	165	209	260	284	90
155°	163	176	203	230	239	75
165°	178	183	195	206	210	50
175°	185	185	187	189	189	18
180°	186	186	186	186	186	

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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	4.8	12.1	11.6	11.8
92.5°	5.4	17.0	55.0	25.4	21.8
95°	12.5	30.7	139.9	52.8	40.7
97.5°	18.6	40.5	228.1	106.0	68.2
100°	27.5	49.6	282.0	211.2	127.8
102.5°	35.7	57.8	283.8	357.0	249.2
105°	43.6	65.7	264.5	472.8	402.3
107.5°	52.1	73.5	246.7	514.8	505.5
110°	60.7	81.6	234.5	508.0	547.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.5	89.2	226.7	485.0	546.9
115°	76.8	96.9	221.3	456.8	529.4
117.5°	85.3	104.6	218.5	429.8	503.0
120°	93.2	112.1	216.0	405.8	477.7
122.5°	100.7	119.8	214.6	387.0	451.2
125°	107.1	126.7	212.8	370.0	429.5
127.5°	112.5	133.4	211.7	355.6	409.1
130°	117.1	139.2	211.0	341.0	392.3
132.5°	121.4	144.9	210.6	325.8	374.9
135°	125.7	149.9	210.3	311.0	355.9
137.5°	129.6	154.2	210.3	296.0	337.7
140°	134.2	158.2	209.9	282.8	318.8
142.5°	138.9	161.4	209.9	270.0	299.9
145°	143.5	165.0	209.2	259.7	284.2
147.5°	148.5	167.8	208.1	250.6	270.3
150°	153.5	170.6	207.1	242.8	258.1
152.5°	158.5	173.5	205.3	236.2	247.8
155°	163.1	176.2	203.1	229.8	238.8
157.5°	167.1	178.3	201.0	223.7	231.0
160°	171.0	180.4	198.8	217.6	223.5
162.5°	174.9	182.0	197.1	211.9	216.3
165°	177.8	183.1	194.6	206.4	209.6
167.5°	180.3	184.2	192.4	201.4	203.1
170°	182.8	184.8	190.6	196.8	197.4
172.5°	184.2	185.2	188.5	192.6	192.8
175°	185.3	185.4	187.1	189.4	188.9
177.5°	186.0	185.6	185.6	187.1	186.0
180°	185.6	185.6	185.6	185.6	185.6

(END OF REPORT)