

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: P1000666

Luminaire Tested: SA4XXDIP-B1020D365UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000666
REPORT IS A COMBINATION OF REPORTS P995279 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1020D365UB35-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

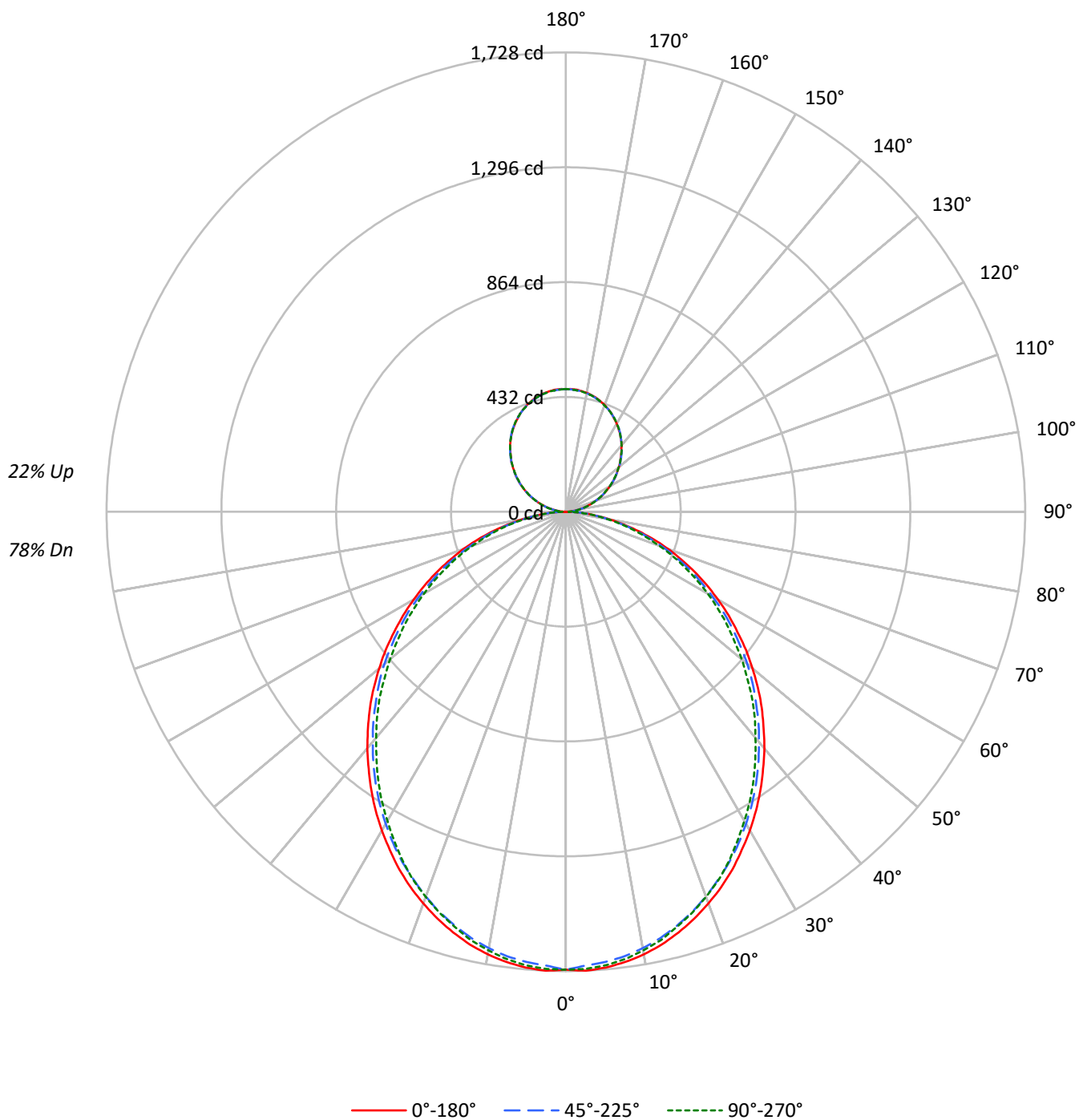
Lumens per Lamp: N/A
Luminaire Lumens: 5703.0 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	114	114	114	114	108	108	108	108	99	99	99	90	90	90	81	81	81
1	104	99	95	92	99	95	91	88	87	84	81	79	77	75	72	70	69
2	95	87	80	75	90	83	77	72	76	71	67	69	66	62	63	60	58
3	86	76	69	62	82	73	66	60	67	61	57	61	57	53	56	52	49
4	79	68	59	53	75	65	57	51	60	53	48	55	50	45	50	46	42
5	73	61	52	46	69	58	50	44	54	47	42	49	44	39	45	41	37
6	67	54	46	40	64	52	45	39	48	42	37	45	39	35	41	36	33
7	62	49	41	35	59	48	40	34	44	37	33	41	35	31	38	33	29
8	58	45	37	31	55	43	36	31	40	34	29	37	32	28	35	30	26
9	54	41	33	28	52	40	32	27	37	31	26	34	29	25	32	27	24
10	51	38	30	25	48	37	30	25	34	28	24	32	26	23	30	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14045	14045	14045
5°	14058	13642	13658
10°	13938	13262	13170
15°	13739	12812	12620
20°	13483	12326	12049
25°	13196	11811	11436
30°	12849	11254	10762
35°	12491	10685	10110
40°	12116	10073	9418
45°	11723	9457	8771
50°	11289	8861	8053
55°	10818	8165	7341
60°	10334	7403	6598
65°	9781	6615	5762
70°	9145	5668	4866
75°	8193	4568	3897
80°	6984	3304	2741
85°	5421	1840	1476

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11723 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	2.8
10°-20°	457.4	8.0
20°-30°	673.1	11.8
30°-40°	782.5	13.7
40°-50°	782.4	13.7
50°-60°	684.3	12.0
60°-70°	508.0	8.9
70°-80°	288.3	5.1
80°-90°	83.5	1.5
90°-100°	30.1	0.5
100°-110°	90.1	1.6
110°-120°	153.1	2.7
120°-130°	201.9	3.5
130°-140°	226.8	4.0
140°-150°	222.9	3.9
150°-160°	187.5	3.3
160°-170°	124.8	2.2
170°-180°	43.7	0.8
0°-30°	1292.9	22.7
0°-40°	2075.4	36.4
0°-60°	3542.1	62.1
0°-90°	4422.0	77.5
90°-120°	273.3	4.8
90°-150°	925.1	16.2
90°-180°	1281.0	22.5
0°-180°	5703.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1722	1722	1722	1722	1722	
5°	1721	1716	1700	1716	1713	163
15°	1638	1633	1612	1620	1616	462
25°	1484	1474	1455	1456	1451	683
35°	1277	1267	1248	1238	1231	798
45°	1042	1032	1010	995	991	803
55°	788	784	765	748	740	706
65°	534	527	513	500	493	529
75°	284	277	270	265	264	302
85°	74	74	72	72	70	80
90°	1	5	8	10	11	6
95°	21	25	27	28	28	23
105°	83	84	85	86	87	88
115°	156	156	155	155	154	154
125°	227	227	226	226	225	202
135°	292	295	295	294	293	226
145°	355	357	357	357	356	222
155°	407	407	407	408	407	187
165°	443	442	441	444	442	125
175°	461	459	459	461	459	44
180°	462	462	462	462	462	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1722.4	1722.4	1722.4	1722.4	1722.4
2.5°	1728.0	1723.8	1708.6	1722.4	1721.1
5°	1721.1	1715.5	1700.4	1715.5	1712.8
7.5°	1708.6	1703.1	1686.6	1699.0	1697.6
10°	1690.7	1685.2	1667.2	1678.3	1675.5
12.5°	1667.2	1661.7	1642.4	1654.8	1650.7
15°	1638.3	1632.7	1612.0	1620.3	1616.2
17.5°	1605.1	1598.2	1578.9	1584.4	1581.7
20°	1567.9	1561.0	1540.3	1544.4	1541.6
22.5°	1527.8	1518.2	1497.5	1505.8	1500.2
25°	1483.7	1474.0	1454.7	1456.1	1450.6
27.5°	1434.0	1424.3	1406.4	1403.6	1396.7
30°	1384.3	1373.3	1355.3	1349.8	1342.9
32.5°	1331.9	1322.2	1302.9	1296.0	1289.1
35°	1276.7	1267.0	1247.7	1238.0	1231.1
37.5°	1218.7	1210.4	1189.7	1180.0	1170.4
40°	1162.1	1151.1	1130.4	1116.6	1109.7
42.5°	1101.4	1095.9	1072.4	1055.8	1051.7
45°	1042.0	1032.4	1010.3	995.1	991.0
47.5°	979.9	973.0	952.3	935.8	924.7
50°	916.4	910.9	891.6	872.3	864.0
52.5°	854.3	847.4	826.7	810.2	799.1
55°	788.1	783.9	764.6	748.1	739.8
57.5°	726.0	721.8	702.5	685.9	677.7
60°	661.1	654.2	636.3	623.8	616.9
62.5°	597.6	592.1	572.8	561.7	554.8
65°	534.1	527.2	513.4	499.6	492.7
67.5°	469.3	463.7	449.9	436.1	434.8
70°	409.9	400.2	389.2	378.2	374.0
72.5°	346.4	336.8	328.5	320.2	316.1
75°	284.3	277.4	270.5	265.0	263.6
77.5°	223.6	220.8	213.9	212.5	208.4
80°	169.8	165.6	162.9	160.1	158.7
82.5°	117.3	115.9	115.9	114.6	113.2
85°	74.5	74.5	71.8	71.8	70.4
87.5°	35.9	34.5	33.1	33.1	33.1
90°	1.1	5.0	7.9	10.0	10.7
92.5°	9.3	13.9	15.7	16.8	17.1
95°	21.4	24.6	27.1	28.2	28.2
97.5°	34.3	37.1	40.0	41.4	41.4
100°	50.0	51.4	54.6	55.3	55.3
102.5°	66.4	66.8	69.6	70.7	71.1
105°	83.2	83.6	85.0	86.1	87.1
107.5°	100.7	101.0	101.4	102.8	102.5
110°	118.5	119.3	118.9	118.2	119.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	137.1	137.1	136.4	136.4	136.4
115°	155.7	155.7	155.0	154.6	154.3
117.5°	173.2	173.2	172.8	171.7	170.7
120°	190.7	192.1	191.0	189.2	190.0
122.5°	208.9	209.2	208.9	207.8	206.0
125°	226.7	226.7	226.4	225.7	225.0
127.5°	242.8	243.9	243.2	242.4	242.1
130°	259.9	261.0	261.0	260.3	258.9
132.5°	277.4	278.2	277.8	277.1	276.7
135°	292.4	294.6	294.6	293.9	292.8
137.5°	309.2	310.3	311.0	309.9	310.3
140°	326.0	326.7	326.7	326.4	326.0
142.5°	341.4	342.1	341.7	341.7	341.7
145°	355.3	356.7	357.1	356.7	355.6
147.5°	369.6	371.3	371.0	370.6	370.3
150°	382.4	383.8	383.8	383.8	383.5
152.5°	394.6	395.3	395.6	396.7	395.6
155°	407.1	407.1	406.7	408.1	406.7
157.5°	417.8	417.1	417.1	418.1	417.1
160°	427.1	426.7	426.3	427.4	425.6
162.5°	435.6	434.6	434.2	436.3	434.6
165°	443.1	442.0	441.3	443.5	442.0
167.5°	449.2	447.8	447.8	449.9	447.8
170°	454.2	452.4	452.8	454.9	452.4
172.5°	457.8	456.3	456.3	458.8	456.3
175°	461.0	459.2	458.8	461.3	458.8
177.5°	462.4	460.6	460.6	463.1	460.3
180°	461.7	461.7	461.7	461.7	461.7

(END OF REPORT)