

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: P1000785

Luminaire Tested: SA4XXDIP-B1020D810UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000785
REPORT IS A COMBINATION OF REPORTS P995398 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1020D810UB35-4F0-XX-W2A-F
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

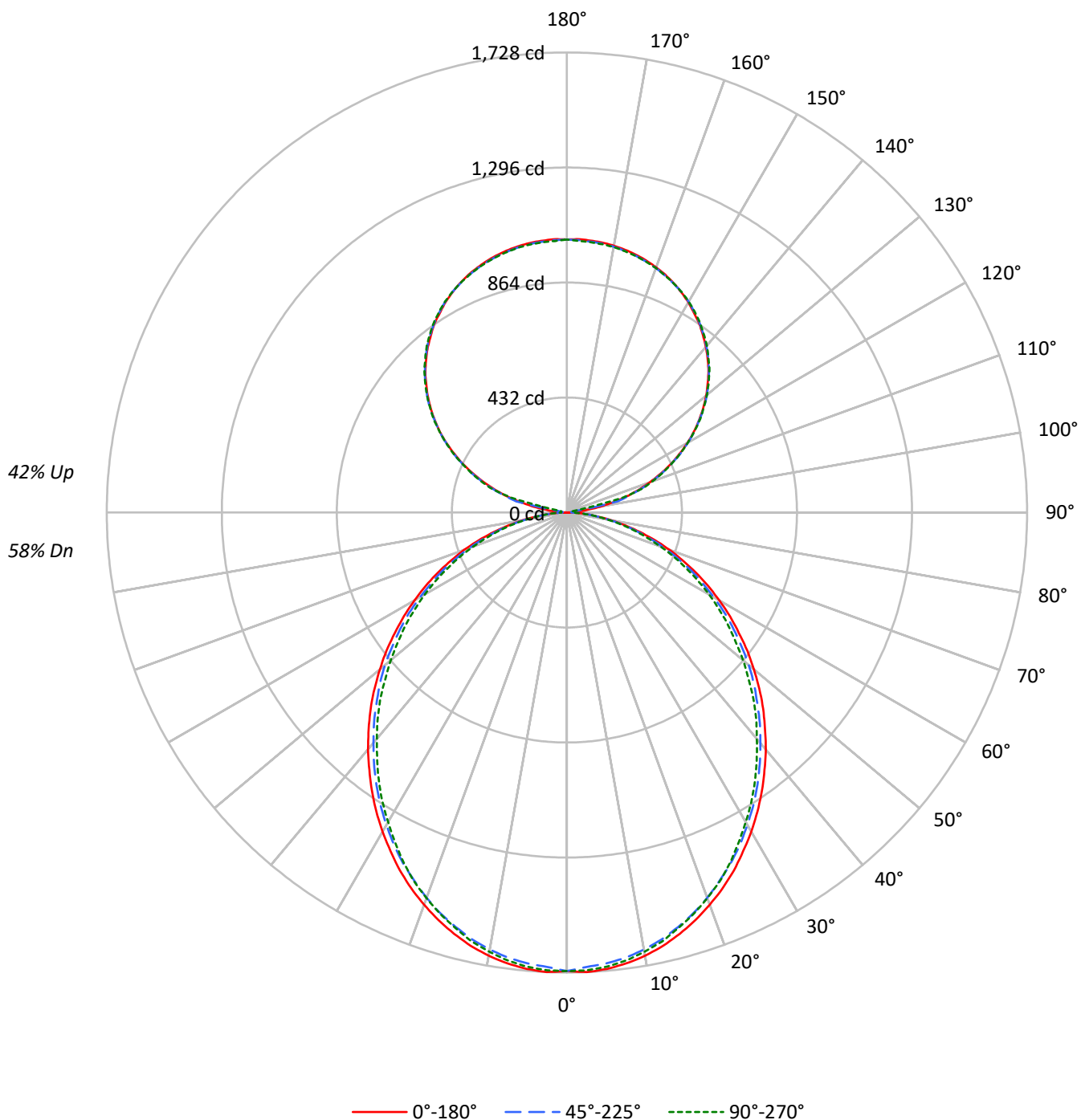
Lumens per Lamp: N/A
Luminaire Lumens: 7596.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	95	91	88	93	89	85	82	77	75	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	56	60	54	50	51	48	44	44	41	38
4	76	65	57	51	70	61	53	48	53	47	43	46	41	38	39	36	33
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29
6	64	52	44	38	60	49	41	36	43	37	32	37	33	29	32	28	25
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23
8	55	43	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18
10	48	36	28	24	45	34	27	23	30	24	21	26	22	19	23	19	17

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	2.1
10°-20°	457.4	6.0
20°-30°	673.1	8.9
30°-40°	782.5	10.3
40°-50°	782.4	10.3
50°-60°	684.3	9.0
60°-70°	508.0	6.7
70°-80°	288.3	3.8
80°-90°	84.7	1.1
90°-100°	34.0	0.4
100°-110°	224.1	3.0
110°-120°	428.0	5.6
120°-130°	543.4	7.2
130°-140°	581.3	7.7
140°-150°	543.6	7.2
150°-160°	438.3	5.8
160°-170°	282.7	3.7
170°-180°	97.4	1.3
0°-30°	1292.9	17.0
0°-40°	2075.4	27.3
0°-60°	3542.1	46.6
0°-90°	4423.1	58.2
90°-120°	686.2	9.0
90°-150°	2354.4	31.0
90°-180°	3173.0	41.8
0°-180°	7596.0	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°	2	11	17	22	23	7
95°	42	16	17	22	22	52
105°	231	235	239	246	219	242
115°	431	433	432	434	434	424
125°	606	609	607	610	610	541
135°	752	751	754	755	757	579
145°	867	869	869	870	871	542
155°	950	951	949	952	950	438
165°	1002	998	998	1005	998	283
175°	1025	1021	1022	1028	1019	98
180°	1025	1025	1025	1025	1025	

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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°	2.3	10.7	16.9	21.5	23.0
92.5°	11.5	10.0	16.1	20.7	20.7
95°	42.2	16.1	16.9	21.5	22.2
97.5°	80.5	97.4	16.9	20.7	21.5
100°	125.8	139.6	33.7	20.7	21.5
102.5°	176.4	185.6	194.8	22.2	22.2
105°	230.8	235.4	239.3	246.2	218.6
107.5°	280.7	283.0	288.4	292.2	295.3
110°	331.3	333.6	338.2	339.7	342.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.4	385.0	386.5	385.8	388.8
115°	431.0	433.3	432.5	434.1	434.1
117.5°	476.3	479.3	481.6	480.9	480.9
120°	522.3	525.3	524.6	526.1	524.6
122.5°	565.2	566.8	568.3	569.1	567.5
125°	605.9	608.9	607.4	609.7	610.5
127.5°	645.0	645.8	649.6	648.8	648.1
130°	682.6	683.3	685.6	686.4	686.4
132.5°	717.1	718.6	721.7	722.4	721.7
135°	751.6	750.8	753.9	755.4	757.0
137.5°	782.3	782.3	786.1	787.6	786.9
140°	812.2	813.7	815.2	817.5	818.3
142.5°	839.0	842.1	842.9	844.4	844.4
145°	866.6	868.9	868.9	869.7	871.2
147.5°	888.1	892.7	891.9	892.7	893.5
150°	911.9	914.9	914.2	914.2	914.9
152.5°	931.8	934.1	932.6	934.1	933.3
155°	950.2	951.0	948.7	951.8	949.5
157.5°	966.3	966.3	963.3	967.1	963.3
160°	980.1	977.8	977.1	981.7	977.1
162.5°	992.4	989.3	988.6	993.2	987.8
165°	1002.4	998.5	998.5	1004.7	997.8
167.5°	1010.8	1007.0	1006.2	1013.1	1005.4
170°	1017.7	1013.1	1013.9	1020.0	1012.3
172.5°	1022.3	1017.7	1018.5	1024.6	1016.2
175°	1025.4	1020.8	1021.5	1028.4	1019.2
177.5°	1027.7	1022.3	1023.8	1030.0	1020.8
180°	1025.4	1025.4	1025.4	1025.4	1025.4

(END OF REPORT)