

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: P1000838

Luminaire Tested: SA4XXDIP-B1195D1035UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000838
REPORT IS A COMBINATION OF REPORTS P995451 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D1035UB30-4F0-XX-W2A-F4
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

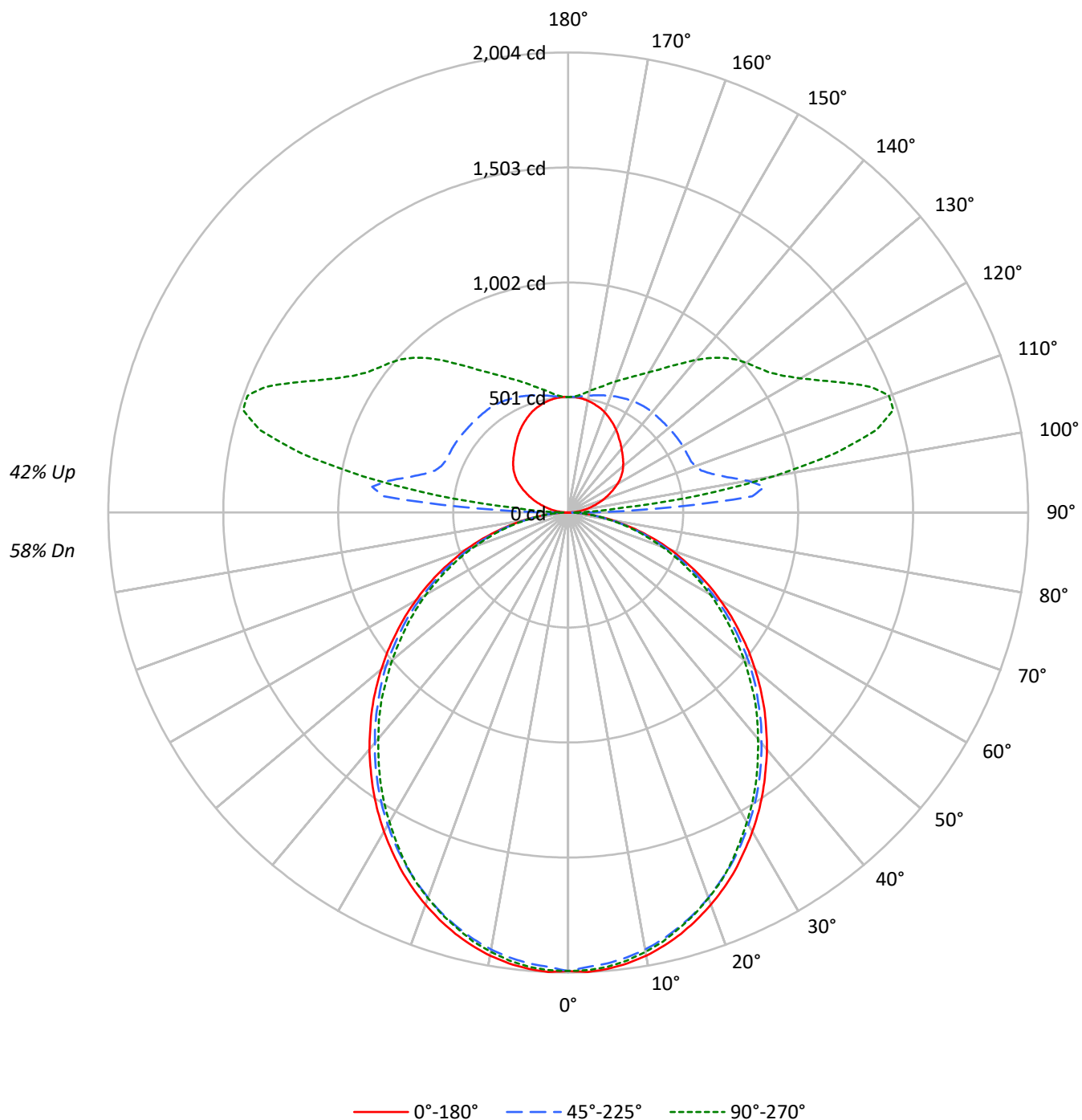
Lumens per Lamp: N/A
Luminaire Lumens: 8799.3 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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	50	47	45
3	83	73	66	60	77	68	62	56	60	54	50	51	48	44	44	41	39
4	76	65	57	51	70	61	53	48	53	47	43	46	42	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	26
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°	16285	16285	16285
5°	16299	15817	15836
10°	16161	15378	15270
15°	15929	14856	14632
20°	15633	14291	13971
25°	15300	13695	13259
30°	14899	13050	12478
35°	14482	12389	11722
40°	14048	11678	10919
45°	13593	10965	10169
50°	13090	10275	9337
55°	12542	9467	8511
60°	11982	8583	7650
65°	11341	7671	6681
70°	10604	6572	5643
75°	9501	5298	4518
80°	8094	3829	3178
85°	6287	2132	1710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 13593 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.2	2.1
10°-20°	530.3	6.0
20°-30°	780.5	8.9
30°-40°	907.3	10.3
40°-50°	907.2	10.3
50°-60°	793.4	9.0
60°-70°	589.1	6.7
70°-80°	334.2	3.8
80°-90°	97.6	1.1
90°-100°	373.7	4.2
100°-110°	760.0	8.6
110°-120°	677.5	7.7
120°-130°	569.1	6.5
130°-140°	474.9	5.4
140°-150°	362.7	4.1
150°-160°	254.9	2.9
160°-170°	149.9	1.7
170°-180°	48.8	0.6
0°-30°	1499.1	17.0
0°-40°	2406.3	27.3
0°-60°	4107.0	46.7
0°-90°	5127.9	58.3
90°-120°	1811.2	20.6
90°-150°	3217.8	36.6
90°-180°	3671.0	41.7
0°-180°	8799.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1997	1997	1997	1997	1997	
5°	1996	1989	1972	1989	1986	189
15°	1900	1893	1869	1879	1874	535
25°	1720	1709	1687	1688	1682	792
35°	1480	1469	1447	1435	1427	926
45°	1208	1197	1171	1154	1149	931
55°	914	909	886	867	858	818
65°	619	611	595	579	571	613
75°	330	322	314	307	306	350
85°	86	86	83	83	82	93
90°	1	8	18	20	21	8
95°	33	103	806	399	241	36
105°	116	168	648	1396	1391	123
115°	204	255	578	1111	1335	202
125°	284	337	575	945	1066	253
135°	337	401	570	839	953	260
145°	388	445	567	708	778	244
155°	442	477	552	625	651	204
165°	481	496	529	560	568	136
175°	502	503	507	514	512	48
180°	503	503	503	503	503	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1997.1	1997.1	1997.1	1997.1	1997.1
2.5°	2003.5	1998.7	1981.1	1997.1	1995.5
5°	1995.5	1989.1	1971.5	1989.1	1985.9
7.5°	1981.1	1974.7	1955.5	1969.9	1968.3
10°	1960.3	1953.9	1933.1	1945.9	1942.7
12.5°	1933.1	1926.7	1904.3	1918.7	1913.9
15°	1899.5	1893.1	1869.1	1878.7	1873.9
17.5°	1861.1	1853.1	1830.7	1837.1	1833.9
20°	1817.9	1809.9	1785.9	1790.7	1787.5
22.5°	1771.5	1760.3	1736.3	1745.9	1739.5
25°	1720.3	1709.1	1686.7	1688.3	1681.9
27.5°	1662.7	1651.5	1630.7	1627.5	1619.5
30°	1605.1	1592.3	1571.5	1565.1	1557.1
32.5°	1544.2	1533.0	1510.6	1502.6	1494.6
35°	1480.2	1469.0	1446.6	1435.4	1427.4
37.5°	1413.0	1403.4	1379.4	1368.2	1357.0
40°	1347.4	1334.6	1310.6	1294.6	1286.6
42.5°	1277.0	1270.6	1243.4	1224.2	1219.4
45°	1208.2	1197.0	1171.4	1153.8	1149.0
47.5°	1136.2	1128.2	1104.2	1085.0	1072.2
50°	1062.6	1056.2	1033.8	1011.4	1001.8
52.5°	990.6	982.6	958.6	939.4	926.5
55°	913.7	908.9	886.5	867.3	857.7
57.5°	841.7	836.9	814.5	795.3	785.7
60°	766.5	758.5	737.7	723.3	715.3
62.5°	692.9	686.5	664.1	651.3	643.3
65°	619.3	611.3	595.3	579.3	571.3
67.5°	544.1	537.7	521.7	505.7	504.1
70°	475.3	464.1	451.3	438.5	433.7
72.5°	401.7	390.5	380.9	371.3	366.5
75°	329.7	321.7	313.7	307.2	305.6
77.5°	259.2	256.0	248.0	246.4	241.6
80°	196.8	192.0	188.8	185.6	184.0
82.5°	136.0	134.4	134.4	132.8	131.2
85°	86.4	86.4	83.2	83.2	81.6
87.5°	41.6	40.0	38.4	38.4	38.4
90°	1.0	7.9	17.8	19.8	20.8
92.5°	13.8	76.2	387.4	128.0	89.9
95°	32.6	102.8	805.5	398.8	241.2
97.5°	54.4	113.7	861.8	814.4	579.2
100°	75.1	128.5	794.6	1126.8	906.3
102.5°	94.9	146.3	710.6	1322.4	1191.0
105°	115.6	167.6	648.4	1396.0	1390.6
107.5°	138.4	189.2	607.8	1373.8	1485.5
110°	161.1	211.0	589.1	1294.8	1487.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.8	232.8	580.2	1197.9	1429.2
115°	203.6	255.4	578.2	1111.0	1335.3
117.5°	225.3	276.8	577.2	1042.7	1243.4
120°	247.1	297.5	577.2	996.8	1168.2
122.5°	266.9	317.8	576.2	966.6	1108.9
125°	283.7	337.0	575.2	945.4	1065.5
127.5°	299.5	354.8	573.2	925.1	1037.8
130°	312.3	372.1	572.3	900.9	1014.1
132.5°	325.2	387.0	571.3	872.2	987.4
135°	337.0	401.2	570.3	839.1	952.8
137.5°	348.9	413.6	570.3	803.6	912.3
140°	361.7	425.0	569.3	769.0	867.8
142.5°	375.6	435.4	569.3	736.8	820.3
145°	388.4	444.8	567.3	707.6	777.8
147.5°	403.3	453.6	564.4	683.4	738.3
150°	417.1	462.0	561.4	661.2	705.7
152.5°	429.9	470.0	556.4	642.4	676.0
155°	441.8	476.9	551.5	624.7	651.3
157.5°	453.7	483.3	546.6	607.8	628.6
160°	464.5	488.8	540.6	591.0	607.8
162.5°	474.4	493.2	534.7	574.8	588.1
165°	481.3	496.2	528.8	559.9	568.3
167.5°	489.2	498.6	522.8	547.0	552.5
170°	494.2	500.6	516.9	534.2	537.7
172.5°	499.1	502.1	511.0	522.8	522.8
175°	502.1	503.1	507.0	513.9	512.0
177.5°	504.1	503.1	504.1	507.5	504.1
180°	503.1	503.1	503.1	503.1	503.1

(END OF REPORT)