

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: P1000951

Luminaire Tested: SA4XXDIP-B1195D365UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000951
REPORT IS A COMBINATION OF REPORTS P995567 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D365UB30-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

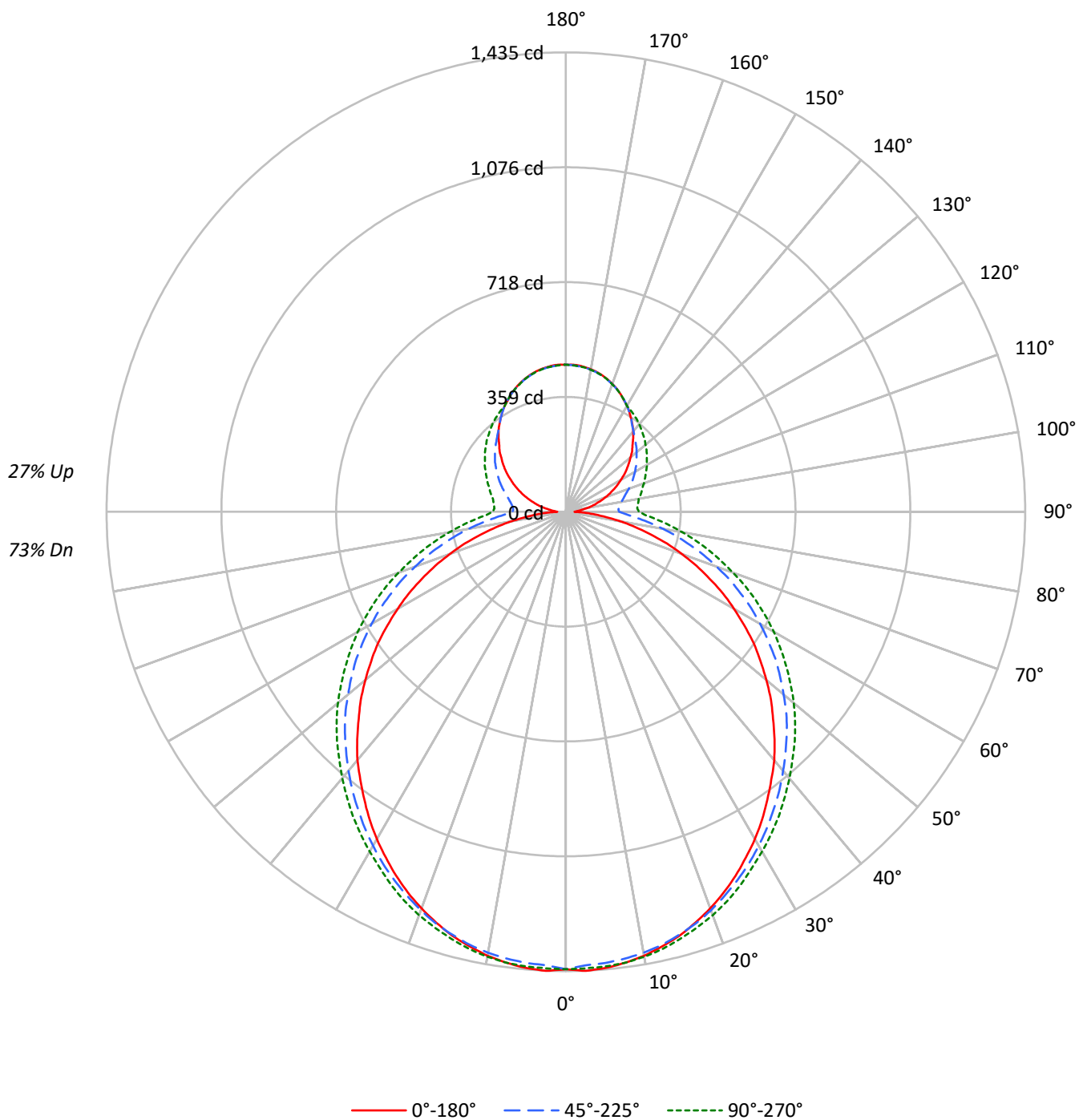
Lumens per Lamp: N/A
Luminaire Lumens: 6148.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	78	78	78
1	102	96	92	88	96	92	87	84	82	79	76	74	71	69	66	64	63
2	92	83	76	70	87	79	73	68	71	66	62	64	60	57	57	54	52
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43
4	76	64	55	49	72	61	53	47	55	49	43	50	44	40	45	40	37
5	70	57	48	42	66	54	46	40	49	43	37	45	39	35	40	35	32
6	64	51	42	36	61	49	41	35	44	38	32	40	34	30	36	32	28
7	60	46	38	32	56	44	36	31	40	33	29	37	31	27	33	28	25
8	55	42	34	28	52	40	32	27	37	30	25	33	28	24	30	26	22
9	52	38	30	25	49	37	29	24	34	27	23	31	25	21	28	23	20
10	48	35	28	22	46	34	27	22	31	25	21	28	23	19	26	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11653	11653	11653
5°	11685	11349	11370
10°	11609	11126	11094
15°	11501	10875	10783
20°	11339	10603	10481
25°	11158	10303	10156
30°	10962	10006	9823
35°	10739	9702	9528
40°	10561	9411	9221
45°	10298	9137	8950
50°	10073	8827	8665
55°	9841	8527	8336
60°	9481	8155	8027
65°	9085	7753	7654
70°	8605	7294	7225
75°	7931	6784	6815
80°	7173	6263	6384
85°	6171	5740	6037

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10298 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	2.2
10°-20°	387.9	6.3
20°-30°	586.6	9.5
30°-40°	709.6	11.5
40°-50°	750.2	12.2
50°-60°	706.0	11.5
60°-70°	585.9	9.5
70°-80°	411.1	6.7
80°-90°	232.7	3.8
90°-100°	167.9	2.7
100°-110°	191.9	3.1
110°-120°	221.0	3.6
120°-130°	239.6	3.9
130°-140°	242.5	3.9
140°-150°	225.2	3.7
150°-160°	186.6	3.0
160°-170°	124.2	2.0
170°-180°	43.5	0.7
0°-30°	1109.9	18.1
0°-40°	1819.6	29.6
0°-60°	3275.8	53.3
0°-90°	4505.6	73.3
90°-120°	580.8	9.4
90°-150°	1288.1	21.0
90°-180°	1642.0	26.7
0°-180°	6148.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1429	1429	1429	1429	1429	
5°	1431	1426	1415	1427	1426	136
15°	1371	1373	1368	1383	1381	386
25°	1255	1264	1269	1287	1288	578
35°	1098	1117	1133	1155	1160	687
45°	915	946	976	1003	1011	707
55°	717	750	798	830	840	639
65°	496	547	602	642	654	492
75°	275	334	402	446	461	292
85°	85	152	224	272	288	88
90°	27	95	166	215	228	19
95°	42	98	166	210	225	40
105°	97	130	190	231	245	104
115°	165	179	229	264	275	163
125°	232	230	270	300	309	207
135°	294	296	308	332	341	228
145°	355	355	355	365	370	222
155°	405	405	405	406	405	187
165°	441	440	439	441	440	124
175°	459	457	457	459	457	44
180°	460	460	460	460	460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1429.0	1429.0	1429.0	1429.0	1429.0
2.5°	1435.4	1430.6	1417.8	1429.0	1427.4
5°	1430.6	1425.8	1414.6	1427.4	1425.8
7.5°	1421.0	1417.8	1408.2	1422.6	1421.0
10°	1408.2	1406.6	1398.6	1413.0	1411.4
12.5°	1390.6	1390.6	1385.8	1398.6	1398.6
15°	1371.4	1373.0	1368.2	1382.6	1381.0
17.5°	1345.8	1350.6	1349.0	1363.4	1361.8
20°	1318.6	1323.4	1325.0	1341.0	1341.0
22.5°	1288.2	1294.6	1297.8	1313.8	1317.0
25°	1254.6	1264.2	1269.0	1286.6	1288.2
27.5°	1217.8	1232.2	1238.6	1254.6	1256.2
30°	1181.0	1193.8	1205.0	1222.6	1225.8
32.5°	1140.9	1157.0	1169.8	1190.6	1193.8
35°	1097.7	1116.9	1132.9	1155.4	1160.2
37.5°	1054.5	1076.9	1096.1	1118.5	1123.3
40°	1012.9	1033.7	1056.1	1080.1	1086.5
42.5°	964.9	988.9	1016.1	1043.3	1048.1
45°	915.3	945.7	976.1	1003.3	1011.3
47.5°	868.9	899.3	934.5	961.7	971.3
50°	817.7	852.9	888.1	920.1	929.7
52.5°	766.5	801.7	843.3	875.3	884.9
55°	716.9	750.5	798.5	830.5	840.1
57.5°	660.9	702.5	748.9	787.3	795.3
60°	606.5	648.1	700.9	737.7	750.5
62.5°	553.7	600.1	652.9	689.7	702.5
65°	496.1	547.3	601.7	641.7	654.5
67.5°	441.7	496.1	553.7	593.7	606.5
70°	385.7	440.1	500.9	544.1	555.3
72.5°	331.2	387.3	452.9	494.5	507.3
75°	275.2	334.4	401.7	446.5	460.9
77.5°	222.4	284.8	355.2	400.1	416.1
80°	174.4	238.4	308.8	356.8	369.6
82.5°	126.4	193.6	264.0	313.6	328.0
85°	84.8	152.0	224.0	272.0	288.0
87.5°	52.8	118.4	188.8	235.2	249.6
90°	26.7	94.6	166.2	214.8	228.3
92.5°	33.2	93.9	164.4	210.3	223.5
95°	42.1	98.1	166.2	210.5	224.9
97.5°	53.3	102.6	171.0	214.0	228.4
100°	67.4	110.4	176.0	219.9	231.1
102.5°	83.7	119.3	182.9	225.6	238.7
105°	97.2	129.6	190.2	231.3	245.1
107.5°	114.6	142.2	198.5	240.0	250.8
110°	130.8	153.9	209.5	245.6	259.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.7	166.9	219.0	254.2	267.0
115°	164.6	179.0	229.4	264.3	275.1
117.5°	182.0	191.6	239.2	271.7	283.5
120°	197.8	204.0	249.3	279.6	293.1
122.5°	215.9	216.3	259.1	290.0	299.5
125°	232.1	230.5	270.1	299.8	308.7
127.5°	248.1	247.5	278.8	306.9	317.8
130°	263.5	263.0	288.6	316.7	324.9
132.5°	280.9	280.1	298.9	325.4	334.6
135°	294.3	296.4	307.6	332.5	341.0
137.5°	311.0	310.4	317.5	340.5	348.8
140°	327.7	326.8	328.4	348.8	356.5
142.5°	341.4	342.1	340.1	357.7	364.1
145°	355.2	355.0	355.4	364.6	370.0
147.5°	369.4	369.6	369.3	370.5	376.5
150°	382.2	382.1	382.1	382.1	381.7
152.5°	392.7	393.4	393.8	394.8	393.8
155°	405.2	405.2	404.8	406.2	404.8
157.5°	415.8	415.1	415.1	416.2	415.1
160°	425.1	424.7	424.3	425.4	423.6
162.5°	433.6	432.5	432.2	434.3	432.5
165°	441.0	440.0	439.3	441.4	440.0
167.5°	447.1	445.7	445.7	447.8	445.7
170°	452.1	450.3	450.6	452.8	450.3
172.5°	455.6	454.2	454.2	456.7	454.2
175°	458.8	457.0	456.7	459.2	456.7
177.5°	460.2	458.5	458.5	460.9	458.1
180°	459.5	459.5	459.5	459.5	459.5

(END OF REPORT)