

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: P1000931

Luminaire Tested: SA4XXDIP-B1195D365UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000931
REPORT IS A COMBINATION OF REPORTS P995544 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D365UB27-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

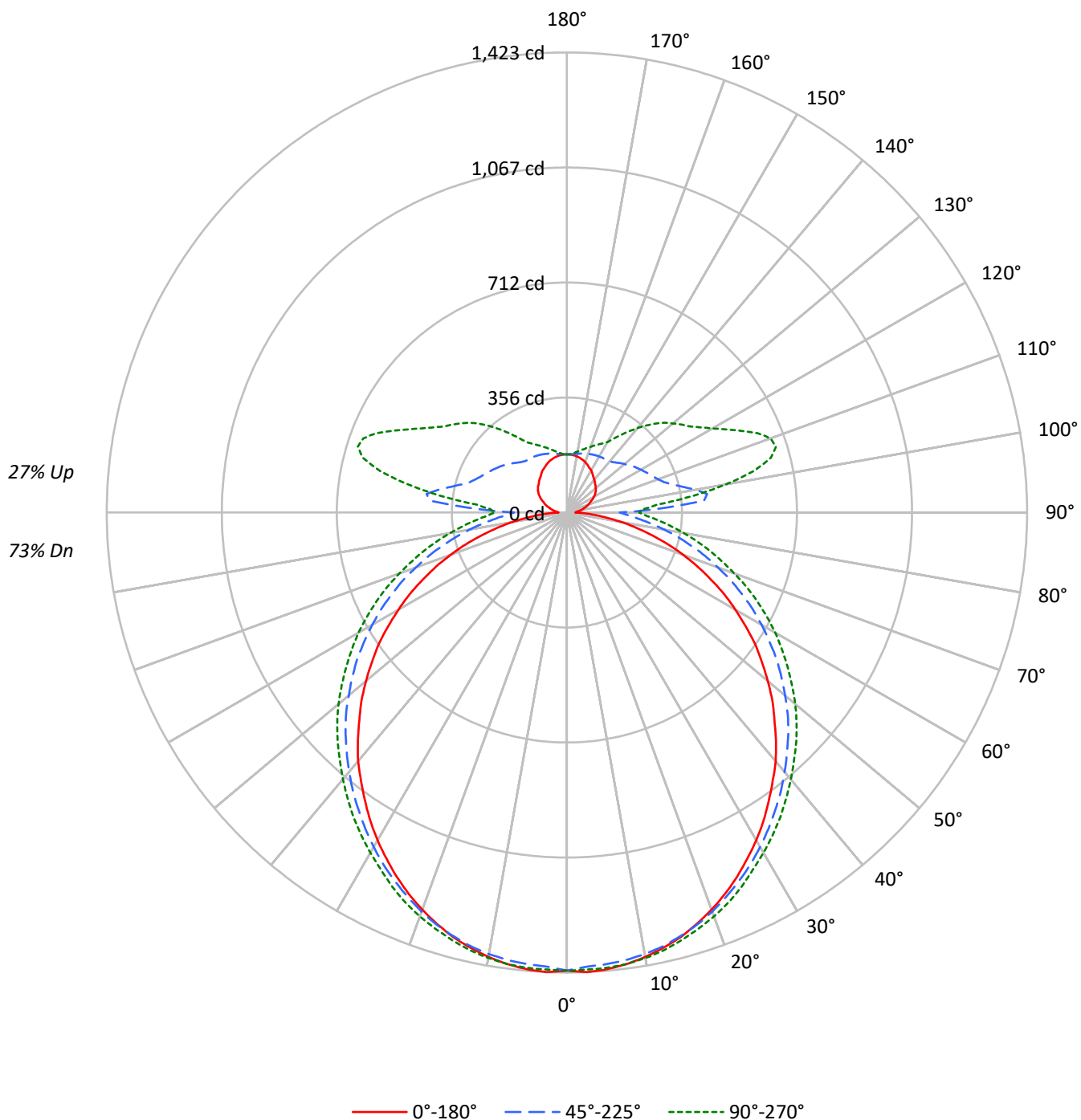
Lumens per Lamp: N/A
Luminaire Lumens: 6141.6 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1000931

CATALOG NUMBER: SA4XXDIP-B1195D365UB27-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1000931

CATALOG NUMBER: SA4XXDIP-B1195D365UB27-4F0-XX-W2A-D4

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	101	96	92	88	96	91	87	84	82	79	76	74	71	69	66	64	62
2	92	83	76	70	87	79	73	67	71	66	62	64	60	56	57	54	51
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	44	40	37
5	70	57	48	42	66	54	46	40	49	42	37	44	39	34	40	35	32
6	64	51	42	36	61	49	41	35	44	37	32	40	34	30	36	31	28
7	59	46	38	32	56	44	36	31	40	33	28	36	31	26	33	28	24
8	55	42	34	28	52	40	32	27	37	30	25	33	28	24	30	25	22
9	51	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	20	28	23	19	26	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11555	11555	11555
5°	11586	11254	11274
10°	11511	11032	11000
15°	11403	10783	10692
20°	11244	10513	10393
25°	11064	10216	10070
30°	10869	9922	9740
35°	10649	9621	9447
40°	10472	9331	9144
45°	10211	9060	8875
50°	9988	8752	8592
55°	9758	8456	8266
60°	9401	8086	7959
65°	9008	7688	7590
70°	8531	7233	7163
75°	7864	6726	6757
80°	7115	6210	6331
85°	6120	5691	5986

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10211 cd/sqm

TEST NUMBER: P1000931

CATALOG NUMBER: SA4XXDIP-B1195D365UB27-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.3	2.2
10°-20°	384.7	6.3
20°-30°	581.6	9.5
30°-40°	703.7	11.5
40°-50°	743.9	12.1
50°-60°	700.1	11.4
60°-70°	581.0	9.5
70°-80°	407.7	6.6
80°-90°	230.5	3.8
90°-100°	270.2	4.4
100°-110°	372.5	6.1
110°-120°	309.7	5.0
120°-130°	241.3	3.9
130°-140°	186.0	3.0
140°-150°	132.7	2.2
150°-160°	91.0	1.5
160°-170°	53.5	0.9
170°-180°	17.4	0.3
0°-30°	1100.6	17.9
0°-40°	1804.2	29.4
0°-60°	3248.2	52.9
0°-90°	4467.4	72.7
90°-120°	952.4	15.5
90°-150°	1512.4	24.6
90°-180°	1674.0	27.3
0°-180°	6141.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1418	1414	1403	1415	1414	135
15°	1360	1361	1357	1371	1369	383
25°	1244	1254	1258	1276	1277	573
35°	1088	1108	1123	1146	1150	682
45°	908	938	968	995	1003	701
55°	711	744	792	824	833	633
65°	492	543	597	636	649	488
75°	273	332	398	443	457	290
85°	84	151	222	270	286	88
90°	26	92	163	210	223	18
95°	32	110	425	323	281	29
105°	56	106	336	642	653	60
115°	82	115	281	506	597	82
125°	108	125	250	412	464	96
135°	123	146	218	339	389	96
145°	140	159	202	262	293	88
155°	158	170	197	223	232	73
165°	172	177	189	200	203	49
175°	179	180	181	183	183	17
180°	180	180	180	180	180	

TEST NUMBER: P1000931

CATALOG NUMBER: SA4XXDIP-B1195D365UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1417.0	1417.0	1417.0	1417.0	1417.0
2.5°	1423.3	1418.5	1405.9	1417.0	1415.4
5°	1418.5	1413.8	1402.7	1415.4	1413.8
7.5°	1409.0	1405.9	1396.3	1410.6	1409.0
10°	1396.3	1394.7	1386.8	1401.1	1399.5
12.5°	1378.9	1378.9	1374.1	1386.8	1386.8
15°	1359.8	1361.4	1356.7	1370.9	1369.4
17.5°	1334.5	1339.2	1337.6	1351.9	1350.3
20°	1307.5	1312.2	1313.8	1329.7	1329.7
22.5°	1277.3	1283.7	1286.8	1302.7	1305.9
25°	1244.0	1253.5	1258.3	1275.7	1277.3
27.5°	1207.5	1221.8	1228.1	1244.0	1245.6
30°	1171.0	1183.7	1194.8	1212.3	1215.4
32.5°	1131.3	1147.2	1159.9	1180.5	1183.7
35°	1088.5	1107.5	1123.4	1145.6	1150.4
37.5°	1045.7	1067.9	1086.9	1109.1	1113.9
40°	1004.4	1025.0	1047.2	1071.1	1077.4
42.5°	956.8	980.6	1007.6	1034.6	1039.3
45°	907.6	937.8	967.9	994.9	1002.8
47.5°	861.6	891.7	926.7	953.6	963.2
50°	810.8	845.7	880.6	912.4	921.9
52.5°	760.0	795.0	836.2	867.9	877.5
55°	710.9	744.2	791.8	823.5	833.0
57.5°	655.3	696.6	742.6	780.7	788.6
60°	601.4	642.6	695.0	731.5	744.2
62.5°	549.0	595.0	647.4	683.9	696.6
65°	491.9	542.7	596.6	636.3	649.0
67.5°	437.9	491.9	549.0	588.7	601.4
70°	382.4	436.4	496.7	539.5	550.6
72.5°	328.5	384.0	449.0	490.3	503.0
75°	272.9	331.6	398.3	442.7	457.0
77.5°	220.6	282.4	352.3	396.7	412.6
80°	173.0	236.4	306.2	353.8	366.5
82.5°	125.4	192.0	261.8	311.0	325.3
85°	84.1	150.7	222.1	269.7	285.6
87.5°	52.4	117.4	187.2	233.3	247.5
90°	25.8	91.7	163.4	210.2	223.2
92.5°	28.7	106.4	285.8	237.7	236.8
95°	32.2	109.7	425.4	323.2	281.2
97.5°	38.4	105.6	437.6	462.0	392.2
100°	44.3	104.6	404.1	565.4	497.9
102.5°	51.4	104.6	366.2	625.8	591.5
105°	55.6	105.8	336.0	642.5	653.3
107.5°	63.7	108.8	313.7	626.7	677.6
110°	70.2	110.2	300.6	588.9	670.3

TEST NUMBER: P1000931

CATALOG NUMBER: SA4XXDIP-B1195D365UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	76.3	113.2	289.5	544.8	640.0
115°	82.1	115.0	280.9	505.8	597.0
117.5°	89.9	117.8	272.5	472.0	556.3
120°	96.1	118.8	264.6	446.0	519.9
122.5°	103.1	121.2	256.4	427.4	489.3
125°	107.5	125.0	249.6	411.9	464.2
127.5°	113.1	131.4	241.0	395.2	446.5
130°	116.2	136.0	232.8	378.6	428.4
132.5°	120.8	141.2	226.0	360.4	411.0
135°	123.4	146.4	217.8	339.1	389.1
137.5°	127.7	149.2	211.4	318.4	365.2
140°	132.3	153.2	206.3	298.2	341.3
142.5°	135.6	157.0	203.1	280.4	316.5
145°	140.2	158.7	202.4	262.0	293.4
147.5°	145.5	161.9	201.4	245.4	271.3
150°	150.4	164.8	200.3	235.9	251.8
152.5°	153.4	167.7	198.5	229.2	241.2
155°	157.6	170.2	196.8	222.9	232.4
157.5°	161.9	172.4	195.0	216.8	224.3
160°	165.7	174.4	192.9	210.9	216.9
162.5°	169.3	176.0	190.8	205.0	209.8
165°	171.7	177.0	188.7	199.8	202.8
167.5°	174.6	177.9	186.5	195.2	197.1
170°	176.3	178.6	184.4	190.6	191.8
172.5°	178.1	179.2	182.3	186.6	186.5
175°	179.1	179.5	180.9	183.4	182.7
177.5°	179.8	179.5	179.8	181.1	179.8
180°	179.5	179.5	179.5	179.5	179.5

(END OF REPORT)