

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: P1000930

Luminaire Tested: SA4XXDIP-B1195D365UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000930
REPORT IS A COMBINATION OF REPORTS P995543 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D365UB27-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

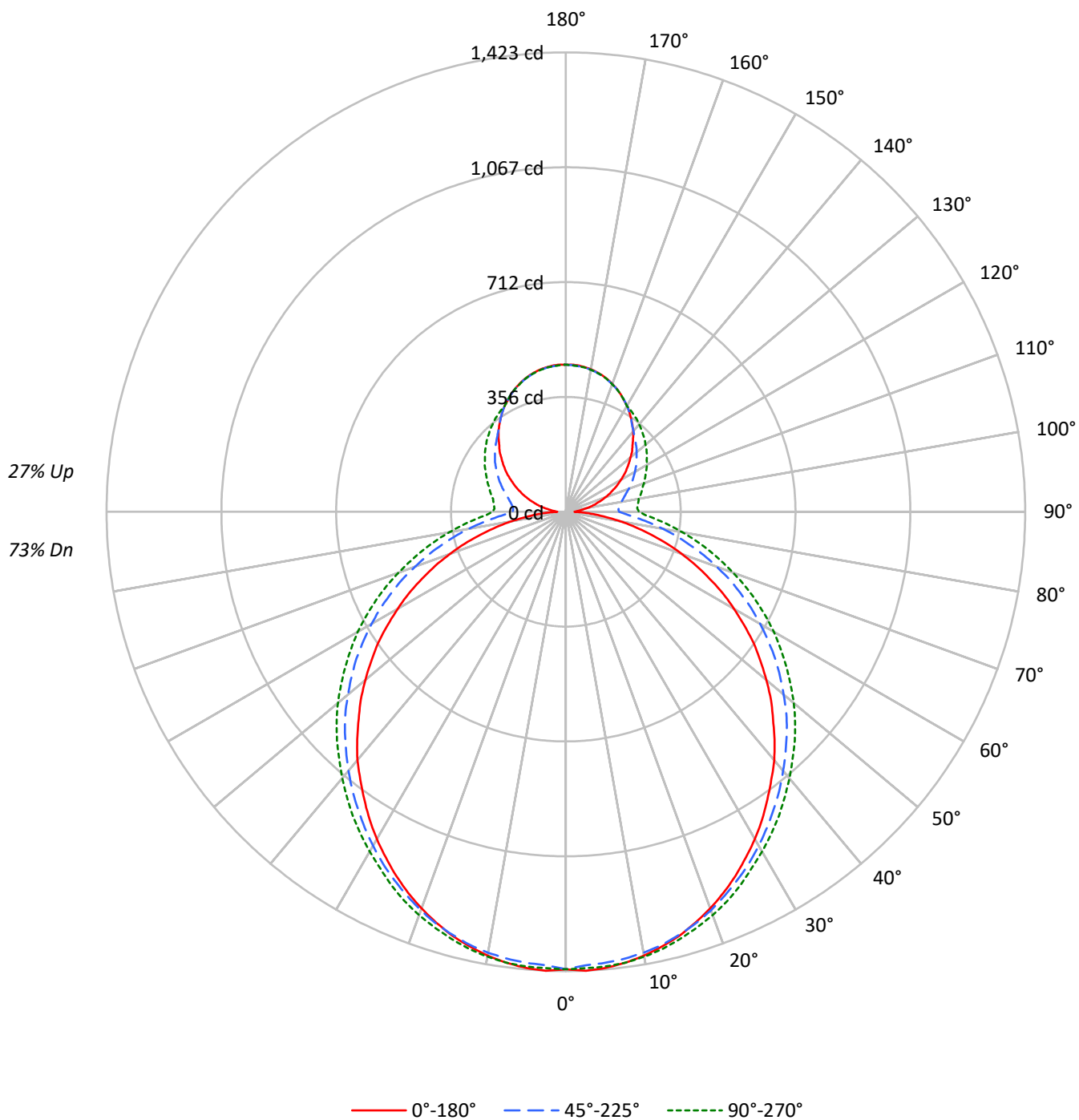
Lumens per Lamp: N/A
Luminaire Lumens: 6096.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	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

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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	12.2
50°-60°	700.1	11.5
60°-70°	581.0	9.5
70°-80°	407.7	6.7
80°-90°	230.8	3.8
90°-100°	166.5	2.7
100°-110°	190.3	3.1
110°-120°	219.1	3.6
120°-130°	237.6	3.9
130°-140°	240.4	3.9
140°-150°	223.3	3.7
150°-160°	185.0	3.0
160°-170°	123.1	2.0
170°-180°	43.1	0.7
0°-30°	1100.6	18.1
0°-40°	1804.2	29.6
0°-60°	3248.2	53.3
0°-90°	4467.7	73.3
90°-120°	575.9	9.4
90°-150°	1277.1	21.0
90°-180°	1628.0	26.7
0°-180°	6096.0	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	94	165	213	226	19
95°	42	97	165	209	223	39
105°	96	128	189	229	243	103
115°	163	177	228	262	273	162
125°	230	228	268	297	306	205
135°	292	294	305	330	338	226
145°	352	352	352	362	367	221
155°	402	402	401	403	401	185
165°	437	436	436	438	436	123
175°	455	453	453	455	453	43
180°	456	456	456	456	456	

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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°	26.5	93.8	164.9	213.0	226.4
92.5°	33.0	93.0	163.1	208.6	221.6
95°	41.7	97.3	164.8	208.7	223.0
97.5°	52.8	101.7	169.6	212.3	226.5
100°	66.8	109.4	174.5	218.0	229.1
102.5°	83.0	118.3	181.4	223.7	236.7
105°	96.4	128.4	188.6	229.3	243.1
107.5°	113.7	141.0	196.9	238.0	248.7
110°	129.7	152.6	207.7	243.5	257.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	146.4	165.4	217.1	252.0	264.7
115°	163.1	177.4	227.5	262.1	272.8
117.5°	180.4	189.9	237.1	269.5	281.1
120°	196.0	202.3	247.2	277.1	290.5
122.5°	214.0	214.4	256.9	287.6	296.9
125°	230.0	228.5	267.8	297.3	306.1
127.5°	245.9	245.4	276.4	304.3	315.1
130°	261.3	260.8	286.2	314.0	322.0
132.5°	278.6	277.7	296.3	322.6	331.8
135°	291.8	293.9	305.0	329.7	338.1
137.5°	308.3	307.8	314.8	337.5	345.9
140°	324.9	324.0	325.6	345.8	353.4
142.5°	338.4	339.1	337.2	354.7	361.0
145°	352.2	352.0	352.3	361.5	366.8
147.5°	366.3	366.4	366.1	367.3	373.3
150°	378.9	378.8	378.8	378.8	378.4
152.5°	389.3	390.0	390.4	391.4	390.4
155°	401.7	401.7	401.3	402.7	401.3
157.5°	412.2	411.5	411.5	412.6	411.5
160°	421.4	421.0	420.7	421.7	420.0
162.5°	429.8	428.8	428.4	430.5	428.8
165°	437.2	436.2	435.5	437.6	436.2
167.5°	443.2	441.8	441.8	443.9	441.8
170°	448.2	446.4	446.8	448.9	446.4
172.5°	451.7	450.3	450.3	452.7	450.3
175°	454.9	453.1	452.7	455.2	452.7
177.5°	456.3	454.5	454.5	457.0	454.2
180°	455.6	455.6	455.6	455.6	455.6

(END OF REPORT)