

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: P1000970

Luminaire Tested: SA4XXDIP-B1195D365UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000970
REPORT IS A COMBINATION OF REPORTS P995586 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D365UB40-4F0-XX-W2A-D4
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

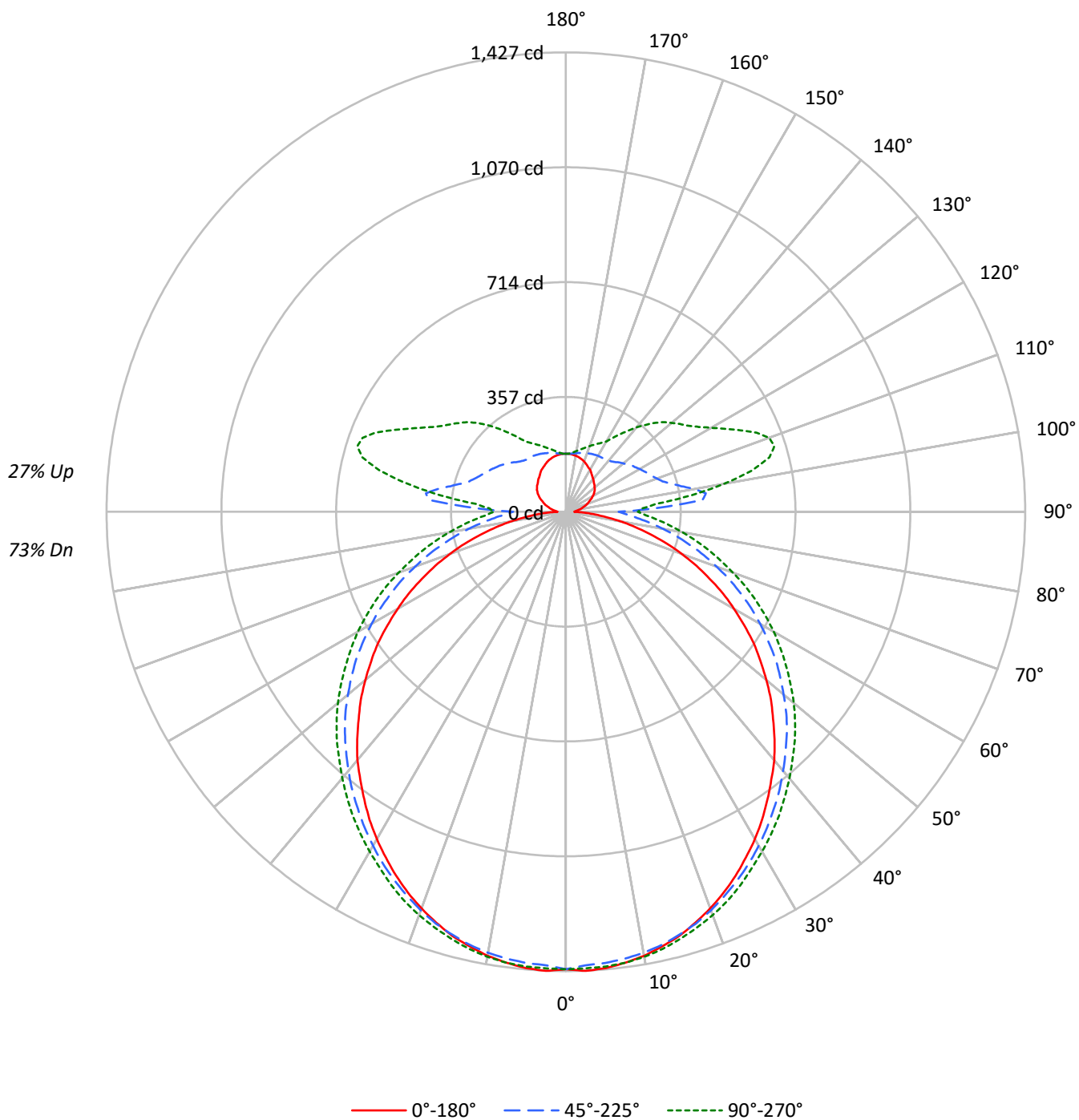
Lumens per Lamp: N/A
Luminaire Lumens: 6158.6 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	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°	11588	11588	11588
5°	11620	11286	11307
10°	11545	11064	11033
15°	11437	10814	10723
20°	11277	10544	10422
25°	11096	10246	10099
30°	10901	9951	9769
35°	10681	9649	9474
40°	10502	9359	9170
45°	10241	9087	8901
50°	10018	8778	8617
55°	9786	8480	8290
60°	9428	8109	7982
65°	9034	7709	7612
70°	8556	7253	7184
75°	7887	6745	6776
80°	7136	6228	6350
85°	6134	5709	6003

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10241 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	2.2
10°-20°	385.8	6.3
20°-30°	583.3	9.5
30°-40°	705.7	11.5
40°-50°	746.0	12.1
50°-60°	702.1	11.4
60°-70°	582.6	9.5
70°-80°	408.9	6.6
80°-90°	231.2	3.8
90°-100°	270.9	4.4
100°-110°	373.4	6.1
110°-120°	310.4	5.0
120°-130°	241.9	3.9
130°-140°	186.4	3.0
140°-150°	133.0	2.2
150°-160°	91.2	1.5
160°-170°	53.6	0.9
170°-180°	17.4	0.3
0°-30°	1103.7	17.9
0°-40°	1809.5	29.4
0°-60°	3257.6	52.9
0°-90°	4480.3	72.7
90°-120°	954.7	15.5
90°-150°	1516.0	24.6
90°-180°	1678.0	27.2
0°-180°	6158.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1421	1421	1421	1421	1421	
5°	1423	1418	1407	1420	1418	135
15°	1364	1365	1361	1375	1373	384
25°	1248	1257	1262	1279	1281	575
35°	1092	1111	1127	1149	1154	684
45°	910	940	971	998	1006	704
55°	713	746	794	826	836	635
65°	493	544	598	638	651	489
75°	274	333	399	444	458	291
85°	84	151	223	270	286	88
90°	26	92	164	211	224	18
95°	32	110	426	324	282	29
105°	56	106	337	644	655	60
115°	82	115	282	507	598	82
125°	108	125	250	413	465	97
135°	124	147	218	340	390	96
145°	140	159	203	263	294	88
155°	158	171	197	223	233	73
165°	172	177	189	200	203	49
175°	180	180	181	184	183	17
180°	180	180	180	180	180	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1421.1	1421.1	1421.1	1421.1	1421.1
2.5°	1427.4	1422.7	1409.9	1421.1	1419.5
5°	1422.7	1417.9	1406.7	1419.5	1417.9
7.5°	1413.1	1409.9	1400.4	1414.7	1413.1
10°	1400.4	1398.8	1390.8	1405.2	1403.6
12.5°	1382.9	1382.9	1378.1	1390.8	1390.8
15°	1363.8	1365.4	1360.6	1374.9	1373.3
17.5°	1338.3	1343.1	1341.5	1355.8	1354.2
20°	1311.3	1316.0	1317.6	1333.5	1333.5
22.5°	1281.0	1287.4	1290.6	1306.5	1309.7
25°	1247.6	1257.2	1261.9	1279.4	1281.0
27.5°	1211.0	1225.3	1231.7	1247.6	1249.2
30°	1174.4	1187.1	1198.3	1215.8	1219.0
32.5°	1134.6	1150.5	1163.3	1184.0	1187.1
35°	1091.7	1110.8	1126.7	1148.9	1153.7
37.5°	1048.7	1071.0	1090.1	1112.3	1117.1
40°	1007.3	1028.0	1050.3	1074.2	1080.5
42.5°	959.6	983.4	1010.5	1037.6	1042.3
45°	910.2	940.5	970.7	997.8	1005.7
47.5°	864.1	894.3	929.3	956.4	965.9
50°	813.2	848.2	883.2	915.0	924.6
52.5°	762.3	797.3	838.6	870.5	880.0
55°	712.9	746.3	794.1	825.9	835.5
57.5°	657.2	698.6	744.7	782.9	790.9
60°	603.1	644.5	697.0	733.6	746.3
62.5°	550.6	596.8	649.3	685.9	698.6
65°	493.3	544.2	598.3	638.1	650.9
67.5°	439.2	493.3	550.6	590.4	603.1
70°	383.5	437.6	498.1	541.1	552.2
72.5°	329.4	385.1	450.3	491.7	504.5
75°	273.7	332.6	399.4	444.0	458.3
77.5°	221.2	283.3	353.3	397.8	413.7
80°	173.5	237.1	307.1	354.9	367.6
82.5°	125.7	192.6	262.6	311.9	326.2
85°	84.3	151.2	222.8	270.5	286.4
87.5°	52.5	117.8	187.8	233.9	248.2
90°	25.9	91.9	163.9	210.8	223.8
92.5°	28.8	106.8	286.6	238.4	237.5
95°	32.4	110.0	426.5	324.0	281.9
97.5°	38.5	105.8	438.7	463.1	393.3
100°	44.4	104.8	405.1	566.8	499.1
102.5°	51.4	104.8	367.1	627.3	593.0
105°	55.7	106.0	336.9	644.0	654.8
107.5°	63.8	109.1	314.5	628.2	679.2
110°	70.3	110.4	301.4	590.4	671.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	76.5	113.4	290.2	546.2	641.6
115°	82.3	115.2	281.6	507.0	598.4
117.5°	90.1	118.0	273.2	473.2	557.6
120°	96.4	119.0	265.3	447.2	521.2
122.5°	103.4	121.6	257.0	428.4	490.5
125°	107.8	125.4	250.3	412.9	465.3
127.5°	113.5	131.6	241.6	396.0	447.5
130°	116.5	136.2	233.2	379.4	429.4
132.5°	121.1	141.5	226.6	361.3	412.0
135°	123.7	146.7	218.2	339.8	390.0
137.5°	128.0	149.5	211.9	319.2	366.0
140°	132.6	153.5	206.8	298.9	342.1
142.5°	135.9	157.3	203.6	281.0	317.3
145°	140.5	159.0	202.9	262.6	294.1
147.5°	145.8	162.2	201.8	246.0	272.0
150°	150.8	165.2	200.8	236.4	252.4
152.5°	153.7	168.1	199.0	229.8	241.8
155°	158.0	170.6	197.2	223.4	232.9
157.5°	162.2	172.8	195.5	217.4	224.8
160°	166.1	174.8	193.3	211.4	217.4
162.5°	169.7	176.4	191.2	205.6	210.3
165°	172.1	177.4	189.1	200.2	203.2
167.5°	175.0	178.3	187.0	195.6	197.6
170°	176.7	179.0	184.9	191.0	192.3
172.5°	178.5	179.6	182.7	187.0	187.0
175°	179.6	179.9	181.3	183.8	183.1
177.5°	180.3	179.9	180.3	181.5	180.3
180°	179.9	179.9	179.9	179.9	179.9

(END OF REPORT)