

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: P1000942

Luminaire Tested: SA4XXDIP-B1195D365UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000942
REPORT IS A COMBINATION OF REPORTS P995556 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B1195D365UB2750-4F0-XX-W2A-D_4000K
Description: Define 4 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

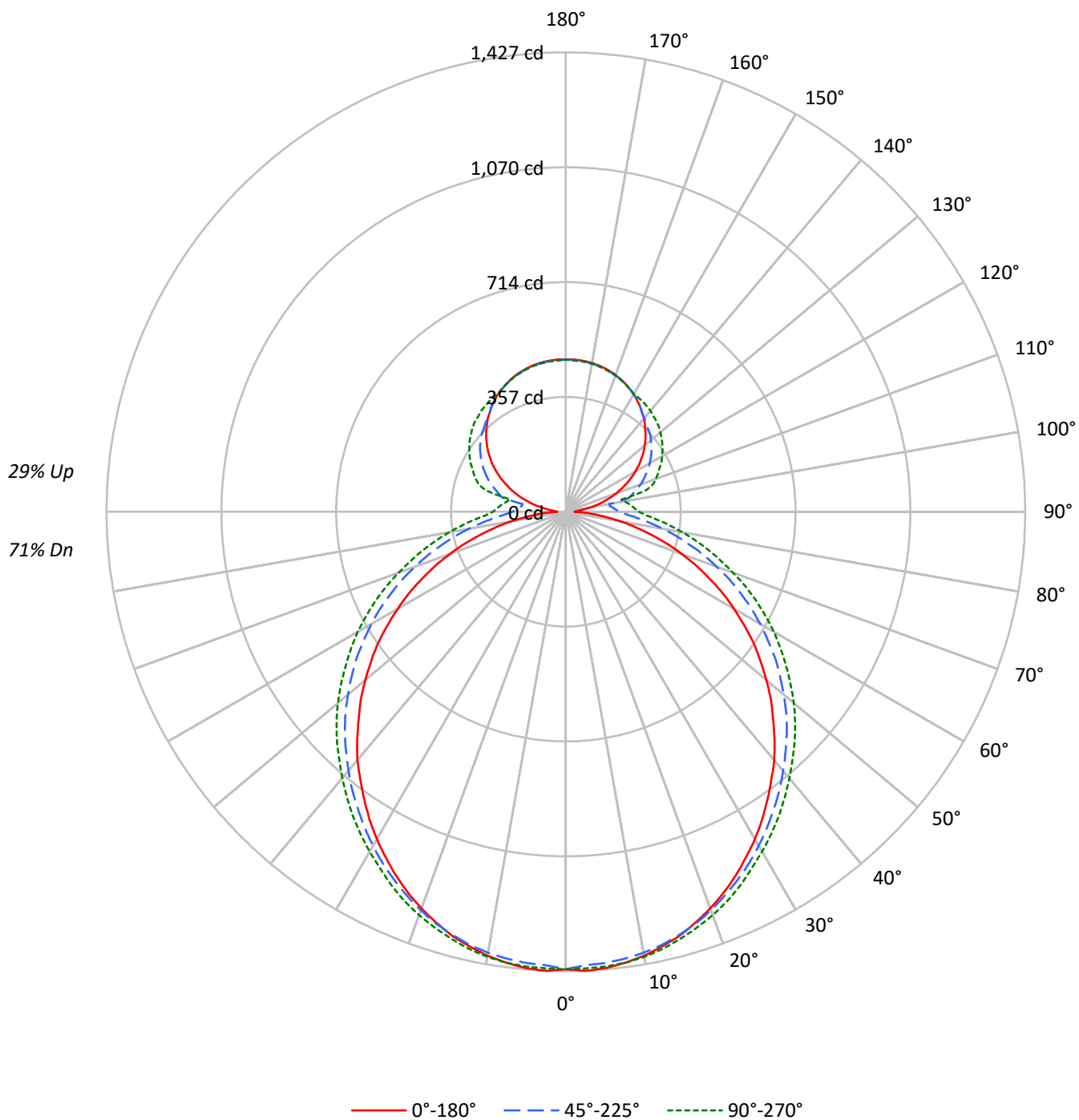
Lumens per Lamp: N/A
Luminaire Lumens: 6309.0 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	50	30	10
RCR																				
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71		
1	101	96	91	87	95	91	87	83	81	78	75	73	70	68	64	63	61	57		
2	91	83	76	70	86	79	72	67	70	65	61	63	59	56	56	53	50	46		
3	83	73	64	58	78	69	61	55	62	56	51	55	50	46	49	45	42	39		
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	39	36	33		
5	70	57	48	41	65	54	46	40	49	42	37	44	38	34	39	35	31	28		
6	64	51	42	36	60	49	40	35	44	37	32	39	34	30	35	31	27	24		
7	59	46	37	31	56	44	36	30	40	33	28	36	30	26	32	28	24	22		
8	55	42	34	28	52	40	32	27	36	30	25	33	27	23	30	25	21	19		
9	51	38	30	25	48	37	29	24	33	27	22	30	25	21	27	23	19	17		
10	48	35	27	22	45	34	26	22	31	24	20	28	23	19	25	21	17	16		

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	2.1
10°-20°	385.8	6.1
20°-30°	583.3	9.2
30°-40°	705.7	11.2
40°-50°	746.0	11.8
50°-60°	702.1	11.1
60°-70°	582.6	9.2
70°-80°	408.9	6.5
80°-90°	231.5	3.7
90°-100°	152.9	2.4
100°-110°	205.0	3.2
110°-120°	265.6	4.2
120°-130°	289.0	4.6
130°-140°	284.6	4.5
140°-150°	253.9	4.0
150°-160°	202.1	3.2
160°-170°	130.3	2.1
170°-180°	44.9	0.7
0°-30°	1103.7	17.5
0°-40°	1809.5	28.7
0°-60°	3257.6	51.6
0°-90°	4480.6	71.0
90°-120°	623.4	9.9
90°-150°	1451.0	23.0
90°-180°	1828.0	29.0
0°-180°	6309.0	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°	27	94	165	214	227	18
95°	40	81	146	191	206	40
105°	121	155	215	258	258	128
115°	208	224	274	310	321	206
125°	286	286	325	356	366	256
135°	350	349	362	388	398	270
145°	401	401	401	410	418	251
155°	438	438	437	439	438	202
165°	462	460	460	463	460	131
175°	473	471	471	474	470	45
180°	473	473	473	473	473	



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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°	26.6	94.1	165.3	213.6	227.0
92.5°	29.2	84.2	155.4	202.1	214.8
95°	40.1	80.6	146.2	191.3	206.0
97.5°	56.2	110.1	138.3	181.4	196.1
100°	75.5	123.3	136.5	173.4	184.9
102.5°	98.8	138.1	202.8	164.7	177.4
105°	120.7	154.7	215.3	258.3	258.3
107.5°	143.7	171.9	230.1	271.6	284.1
110°	165.5	188.8	246.7	284.0	297.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	186.5	207.7	260.9	295.7	309.8
115°	208.2	223.7	274.2	310.0	321.1
117.5°	229.1	240.1	288.9	322.0	334.7
120°	248.8	254.9	300.8	333.3	345.3
122.5°	268.6	269.3	312.9	345.1	355.6
125°	285.8	285.6	324.7	355.9	365.8
127.5°	303.8	302.6	336.1	364.4	375.2
130°	319.5	318.3	344.7	373.8	383.3
132.5°	335.4	334.6	355.1	382.4	391.7
135°	349.8	349.4	361.9	388.1	398.3
137.5°	363.9	362.3	370.5	395.0	402.6
140°	377.7	376.8	379.1	400.9	409.1
142.5°	388.5	389.9	388.6	406.8	413.2
145°	401.2	400.7	400.7	410.5	417.6
147.5°	411.1	411.6	411.3	413.2	420.0
150°	422.1	421.9	421.5	421.5	421.9
152.5°	429.7	430.7	430.0	430.7	430.4
155°	438.1	438.5	437.4	438.9	437.8
157.5°	445.6	445.6	444.2	445.9	444.2
160°	451.9	450.9	450.5	452.6	450.5
162.5°	457.6	456.2	455.8	458.0	455.5
165°	462.2	460.4	460.4	463.3	460.1
167.5°	466.1	464.3	464.0	467.1	463.6
170°	469.3	467.1	467.5	470.3	466.8
172.5°	471.4	469.3	469.6	472.5	468.6
175°	472.8	470.7	471.0	474.2	470.0
177.5°	473.9	471.4	472.1	474.9	470.7
180°	472.8	472.8	472.8	472.8	472.8

(END OF REPORT)