

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: P1001500

Luminaire Tested: SA4XXDIP-B575D1205UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1001500
REPORT IS A COMBINATION OF REPORTS P996119 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA4XXDIP-B575D1205UB35-4F0-XX-W2A-F1
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

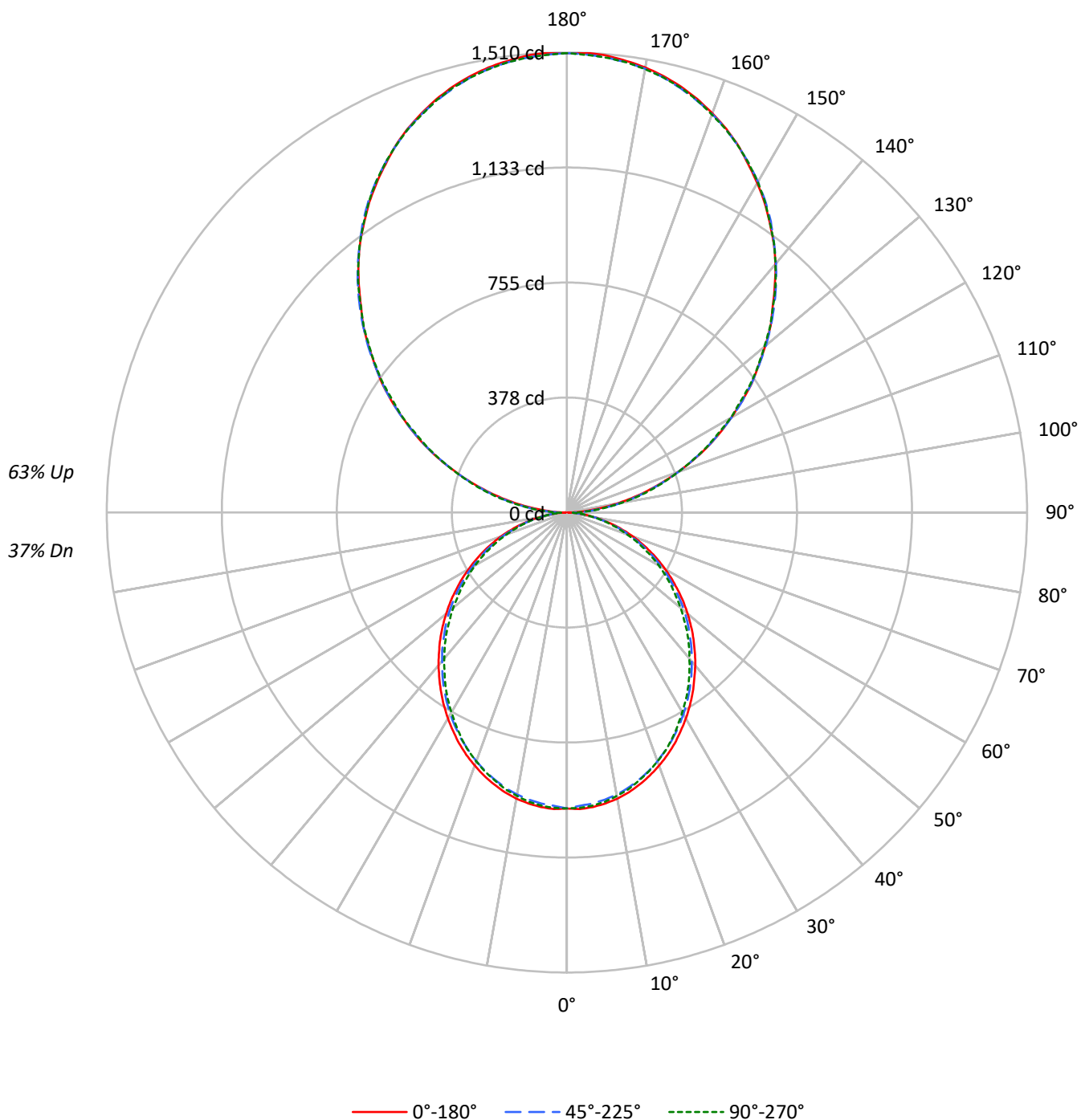
Lumens per Lamp: N/A
Luminaire Lumens: 6680.0 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45
1	95	91	87	83	86	82	79	76	67	65	62	52	51	50	39	38	37
2	86	79	73	68	78	72	67	62	58	55	52	46	44	41	35	33	32
3	79	70	62	57	71	63	57	52	52	47	43	41	38	35	31	29	27
4	72	61	54	48	65	56	49	44	46	41	37	36	33	30	27	25	23
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	25	22	20
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13
10	45	33	26	22	41	31	24	20	25	21	17	21	17	14	16	13	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7920	7920	7920
5°	7927	7692	7702
10°	7860	7479	7426
15°	7747	7225	7116
20°	7603	6951	6794
25°	7441	6660	6449
30°	7246	6347	6069
35°	7043	6026	5701
40°	6832	5680	5310
45°	6611	5333	4946
50°	6367	4997	4541
55°	6100	4605	4140
60°	5828	4175	3721
65°	5516	3730	3249
70°	5156	3196	2744
75°	4619	2575	2199
80°	3936	1862	1546
85°	3056	1038	832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6611 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	1.4
10°-20°	257.9	3.9
20°-30°	379.6	5.7
30°-40°	441.2	6.6
40°-50°	441.2	6.6
50°-60°	385.9	5.8
60°-70°	286.5	4.3
70°-80°	162.5	2.4
80°-90°	49.8	0.7
90°-100°	98.3	1.5
100°-110°	294.4	4.4
110°-120°	500.1	7.5
120°-130°	659.6	9.9
130°-140°	740.8	11.1
140°-150°	728.1	10.9
150°-160°	612.4	9.2
160°-170°	407.5	6.1
170°-180°	142.7	2.1
0°-30°	729.1	10.9
0°-40°	1170.3	17.5
0°-60°	1997.4	29.9
0°-90°	2496.2	37.4
90°-120°	892.8	13.4
90°-150°	3021.3	45.2
90°-180°	4184.0	62.6
0°-180°	6680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	971	971	971	971	971	
5°	970	967	959	967	966	92
15°	924	921	909	914	911	260
25°	837	831	820	821	818	385
35°	720	714	704	698	694	450
45°	588	582	570	561	559	453
55°	444	442	431	422	417	398
65°	301	297	290	282	278	298
75°	160	156	152	149	149	170
85°	42	42	40	40	40	45
90°	4	16	26	33	35	8
95°	70	80	89	92	92	76
105°	272	273	278	281	284	288
115°	508	508	506	505	504	501
125°	740	740	739	737	735	660
135°	955	962	962	960	956	739
145°	1160	1165	1166	1165	1162	726
155°	1329	1329	1328	1333	1328	612
165°	1447	1444	1441	1448	1444	408
175°	1506	1500	1498	1507	1498	143
180°	1508	1508	1508	1508	1508	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	971.3	971.3	971.3	971.3	971.3
2.5°	974.4	972.1	963.5	971.3	970.5
5°	970.5	967.4	958.8	967.4	965.8
7.5°	963.5	960.4	951.1	958.1	957.3
10°	953.4	950.3	940.2	946.4	944.8
12.5°	940.2	937.0	926.1	933.2	930.8
15°	923.8	920.7	909.0	913.7	911.4
17.5°	905.1	901.2	890.3	893.5	891.9
20°	884.1	880.2	868.6	870.9	869.3
22.5°	861.6	856.1	844.4	849.1	846.0
25°	836.6	831.2	820.3	821.1	818.0
27.5°	808.6	803.2	793.1	791.5	787.6
30°	780.6	774.4	764.3	761.2	757.3
32.5°	751.0	745.6	734.7	730.8	726.9
35°	719.9	714.5	703.6	698.1	694.2
37.5°	687.2	682.5	670.9	665.4	660.0
40°	655.3	649.1	637.4	629.6	625.7
42.5°	621.1	618.0	604.7	595.4	593.0
45°	587.6	582.2	569.7	561.1	558.8
47.5°	552.6	548.7	537.0	527.7	521.4
50°	516.8	513.7	502.8	491.9	487.2
52.5°	481.8	477.9	466.2	456.8	450.6
55°	444.4	442.1	431.2	421.8	417.2
57.5°	409.4	407.0	396.1	386.8	382.1
60°	372.8	368.9	358.8	351.8	347.9
62.5°	337.0	333.9	323.0	316.8	312.9
65°	301.2	297.3	289.5	281.7	277.8
67.5°	264.6	261.5	253.7	245.9	245.2
70°	231.1	225.7	219.5	213.2	210.9
72.5°	195.3	189.9	185.2	180.6	178.2
75°	160.3	156.4	152.5	149.4	148.7
77.5°	126.1	124.5	120.6	119.9	117.5
80°	95.7	93.4	91.8	90.3	89.5
82.5°	66.2	65.4	65.4	64.6	63.8
85°	42.0	42.0	40.5	40.5	39.7
87.5°	20.2	19.5	18.7	18.7	18.7
90°	3.5	16.3	25.7	32.7	35.0
92.5°	30.3	45.5	51.3	54.8	56.0
95°	70.0	80.5	88.6	92.1	92.1
97.5°	112.0	121.3	130.6	135.3	135.3
100°	163.3	167.9	178.4	180.8	180.8
102.5°	216.9	218.1	227.4	230.9	232.1
105°	271.7	272.9	277.6	281.0	284.5
107.5°	328.9	330.0	331.2	335.9	334.7
110°	387.2	389.5	388.3	386.0	389.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	447.8	447.8	445.5	445.5	445.5
115°	508.5	508.5	506.1	505.0	503.8
117.5°	565.6	565.6	564.4	560.9	557.4
120°	622.7	627.4	623.9	618.1	620.4
122.5°	682.2	683.4	682.2	678.7	672.9
125°	740.5	740.5	739.4	737.0	734.7
127.5°	793.0	796.5	794.2	791.8	790.7
130°	849.0	852.5	852.5	850.1	845.5
132.5°	906.1	908.5	907.3	905.0	903.8
135°	955.1	962.1	962.1	959.8	956.3
137.5°	1009.9	1013.4	1015.7	1012.2	1013.4
140°	1064.7	1067.1	1067.1	1065.9	1064.7
142.5°	1114.9	1117.2	1116.0	1116.0	1116.0
145°	1160.3	1165.0	1166.2	1165.0	1161.5
147.5°	1207.0	1212.8	1211.7	1210.5	1209.3
150°	1249.0	1253.6	1253.6	1253.6	1252.5
152.5°	1288.6	1291.0	1292.1	1295.6	1292.1
155°	1329.4	1329.4	1328.3	1332.9	1328.3
157.5°	1364.4	1362.1	1362.1	1365.6	1362.1
160°	1394.7	1393.6	1392.4	1395.9	1390.1
162.5°	1422.7	1419.2	1418.1	1425.1	1419.2
165°	1447.2	1443.7	1441.4	1448.4	1443.7
167.5°	1467.1	1462.4	1462.4	1469.4	1462.4
170°	1483.4	1477.5	1478.7	1485.7	1477.5
172.5°	1495.0	1490.4	1490.4	1498.5	1490.4
175°	1505.5	1499.7	1498.5	1506.7	1498.5
177.5°	1510.2	1504.4	1504.4	1512.5	1503.2
180°	1507.9	1507.9	1507.9	1507.9	1507.9

(END OF REPORT)