

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: P1025684

Luminaire Tested: S124DIP-B575D810UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025684
REPORT IS A COMBINATION OF REPORTS P996299 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D810UB35-4F0-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

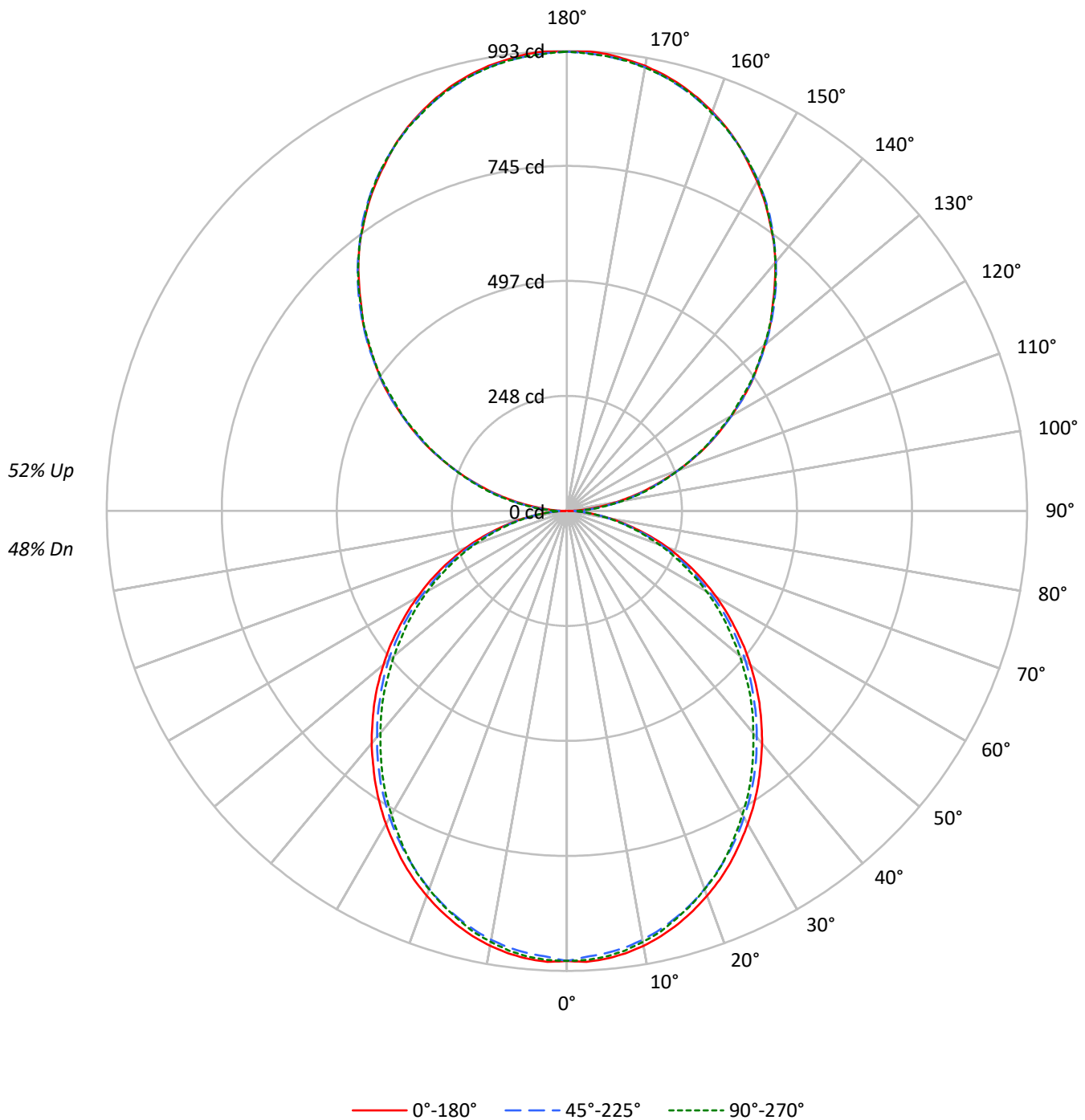
Lumens per Lamp: N/A
Luminaire Lumens: 5246.0 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.1
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	97	93	89	85	89	86	82	79	72	69	67	59	58	56	48	46	45
2	88	81	75	70	81	75	69	65	63	59	56	52	49	47	42	40	38
3	81	71	64	58	74	66	59	54	55	51	47	46	42	40	37	35	33
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28
5	68	56	48	42	62	52	45	39	44	39	34	37	33	29	30	27	24
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	22
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14

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	1.7
10°-20°	257.9	4.9
20°-30°	379.6	7.2
30°-40°	441.2	8.4
40°-50°	441.2	8.4
50°-60°	385.9	7.4
60°-70°	286.5	5.5
70°-80°	162.5	3.1
80°-90°	48.7	0.9
90°-100°	64.6	1.2
100°-110°	193.6	3.7
110°-120°	328.8	6.3
120°-130°	433.7	8.3
130°-140°	487.1	9.3
140°-150°	478.7	9.1
150°-160°	402.7	7.7
160°-170°	267.9	5.1
170°-180°	93.8	1.8
0°-30°	729.1	13.9
0°-40°	1170.3	22.3
0°-60°	1997.4	38.1
0°-90°	2495.1	47.6
90°-120°	587.0	11.2
90°-150°	1986.5	37.9
90°-180°	2751.0	52.4
0°-180°	5246.0	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°	2	11	17	22	23	6
95°	46	53	58	61	61	50
105°	179	179	182	185	187	189
115°	334	334	333	332	331	330
125°	487	487	486	485	483	434
135°	628	633	633	631	629	486
145°	763	766	767	766	764	478
155°	874	874	873	876	873	402
165°	952	949	948	952	949	268
175°	990	986	985	991	985	94
180°	991	991	991	991	991	

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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°	2.3	10.7	16.9	21.5	23.0
92.5°	19.9	29.9	33.7	36.0	36.8
95°	46.0	52.9	58.3	60.6	60.6
97.5°	73.6	79.7	85.9	88.9	88.9
100°	107.3	110.4	117.3	118.9	118.9
102.5°	142.6	143.4	149.5	151.8	152.6
105°	178.7	179.4	182.5	184.8	187.1
107.5°	216.2	217.0	217.8	220.8	220.1
110°	254.6	256.1	255.3	253.8	256.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	294.4	294.4	292.9	292.9	292.9
115°	334.3	334.3	332.8	332.0	331.2
117.5°	371.9	371.9	371.1	368.8	366.5
120°	409.5	412.5	410.2	406.4	407.9
122.5°	448.6	449.3	448.6	446.3	442.4
125°	486.9	486.9	486.1	484.6	483.1
127.5°	521.4	523.7	522.2	520.6	519.9
130°	558.2	560.5	560.5	559.0	555.9
132.5°	595.8	597.3	596.6	595.0	594.3
135°	628.0	632.6	632.6	631.1	628.8
137.5°	664.0	666.3	667.9	665.6	666.3
140°	700.1	701.6	701.6	700.8	700.1
142.5°	733.0	734.6	733.8	733.8	733.8
145°	762.9	766.0	766.8	766.0	763.7
147.5°	793.6	797.4	796.7	795.9	795.1
150°	821.2	824.3	824.3	824.3	823.5
152.5°	847.3	848.8	849.6	851.9	849.6
155°	874.1	874.1	873.4	876.4	873.4
157.5°	897.1	895.6	895.6	897.9	895.6
160°	917.1	916.3	915.5	917.8	914.0
162.5°	935.5	933.2	932.4	937.0	933.2
165°	951.6	949.3	947.7	952.3	949.3
167.5°	964.6	961.5	961.5	966.1	961.5
170°	975.3	971.5	972.3	976.9	971.5
172.5°	983.0	979.9	979.9	985.3	979.9
175°	989.9	986.1	985.3	990.7	985.3
177.5°	993.0	989.1	989.1	994.5	988.4
180°	991.4	991.4	991.4	991.4	991.4

(END OF REPORT)