

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: P1025683

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025683
REPORT IS A COMBINATION OF REPORTS P996298 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-F
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

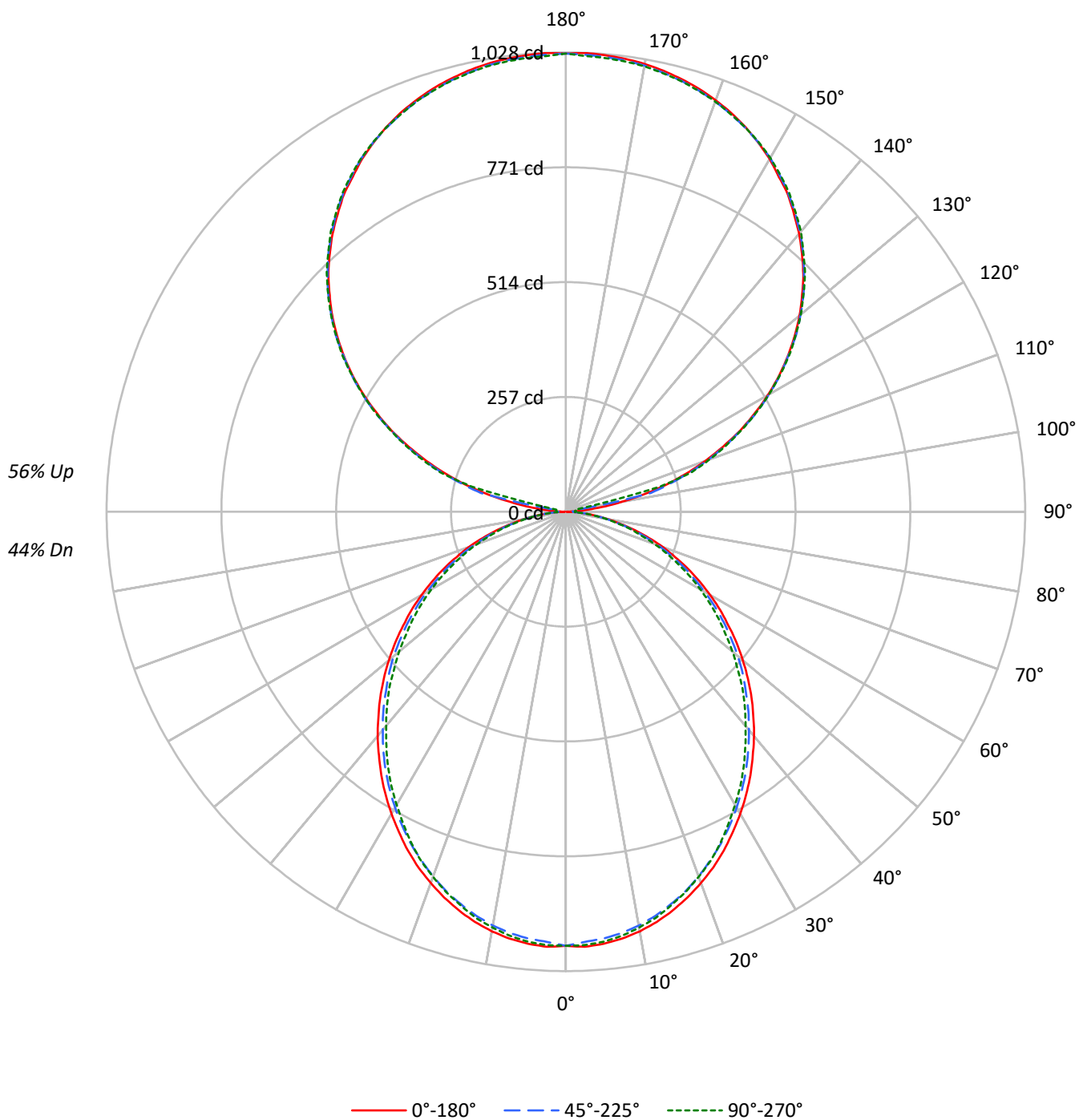
Lumens per Lamp: N/A
Luminaire Lumens: 5668.0 lumens
Efficiency: N/A
Efficacy: 125.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	45	44	43
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	38	36
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	33	31
4	73	62	55	49	67	57	51	45	48	43	39	39	36	32	31	28	26
5	67	56	48	42	61	51	44	39	43	38	33	35	31	28	28	25	23
6	62	50	42	36	56	46	39	34	39	33	29	32	28	25	25	22	20
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18
8	53	41	33	28	48	38	31	26	32	27	23	26	22	19	21	18	16
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	14
10	46	34	27	22	42	32	25	21	27	22	18	22	18	16	18	15	13

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	1.6
10°-20°	257.9	4.6
20°-30°	379.6	6.7
30°-40°	441.2	7.8
40°-50°	441.2	7.8
50°-60°	385.9	6.8
60°-70°	286.5	5.1
70°-80°	162.5	2.9
80°-90°	48.7	0.9
90°-100°	34.0	0.6
100°-110°	224.1	4.0
110°-120°	428.0	7.6
120°-130°	543.4	9.6
130°-140°	581.3	10.3
140°-150°	543.6	9.6
150°-160°	438.3	7.7
160°-170°	282.7	5.0
170°-180°	97.4	1.7
0°-30°	729.1	12.9
0°-40°	1170.3	20.6
0°-60°	1997.4	35.2
0°-90°	2495.1	44.0
90°-120°	686.2	12.1
90°-150°	2354.4	41.5
90°-180°	3173.0	56.0
0°-180°	5668.0	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	5
95°	42	16	17	22	22	52
105°	231	235	239	246	219	242
115°	431	433	432	434	434	424
125°	606	609	607	610	610	541
135°	752	751	754	755	757	579
145°	867	869	869	870	871	542
155°	950	951	949	952	950	438
165°	1002	998	998	1005	998	283
175°	1025	1021	1022	1028	1019	98
180°	1025	1025	1025	1025	1025	

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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°	11.5	10.0	16.1	20.7	20.7
95°	42.2	16.1	16.9	21.5	22.2
97.5°	80.5	97.4	16.9	20.7	21.5
100°	125.8	139.6	33.7	20.7	21.5
102.5°	176.4	185.6	194.8	22.2	22.2
105°	230.8	235.4	239.3	246.2	218.6
107.5°	280.7	283.0	288.4	292.2	295.3
110°	331.3	333.6	338.2	339.7	342.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	380.4	385.0	386.5	385.8	388.8
115°	431.0	433.3	432.5	434.1	434.1
117.5°	476.3	479.3	481.6	480.9	480.9
120°	522.3	525.3	524.6	526.1	524.6
122.5°	565.2	566.8	568.3	569.1	567.5
125°	605.9	608.9	607.4	609.7	610.5
127.5°	645.0	645.8	649.6	648.8	648.1
130°	682.6	683.3	685.6	686.4	686.4
132.5°	717.1	718.6	721.7	722.4	721.7
135°	751.6	750.8	753.9	755.4	757.0
137.5°	782.3	782.3	786.1	787.6	786.9
140°	812.2	813.7	815.2	817.5	818.3
142.5°	839.0	842.1	842.9	844.4	844.4
145°	866.6	868.9	868.9	869.7	871.2
147.5°	888.1	892.7	891.9	892.7	893.5
150°	911.9	914.9	914.2	914.2	914.9
152.5°	931.8	934.1	932.6	934.1	933.3
155°	950.2	951.0	948.7	951.8	949.5
157.5°	966.3	966.3	963.3	967.1	963.3
160°	980.1	977.8	977.1	981.7	977.1
162.5°	992.4	989.3	988.6	993.2	987.8
165°	1002.4	998.5	998.5	1004.7	997.8
167.5°	1010.8	1007.0	1006.2	1013.1	1005.4
170°	1017.7	1013.1	1013.9	1020.0	1012.3
172.5°	1022.3	1017.7	1018.5	1024.6	1016.2
175°	1025.4	1020.8	1021.5	1028.4	1019.2
177.5°	1027.7	1022.3	1023.8	1030.0	1020.8
180°	1025.4	1025.4	1025.4	1025.4	1025.4

(END OF REPORT)