

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: P1025685

Luminaire Tested: S124DIP-B575D810UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025685
REPORT IS A COMBINATION OF REPORTS P996300 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-F4
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

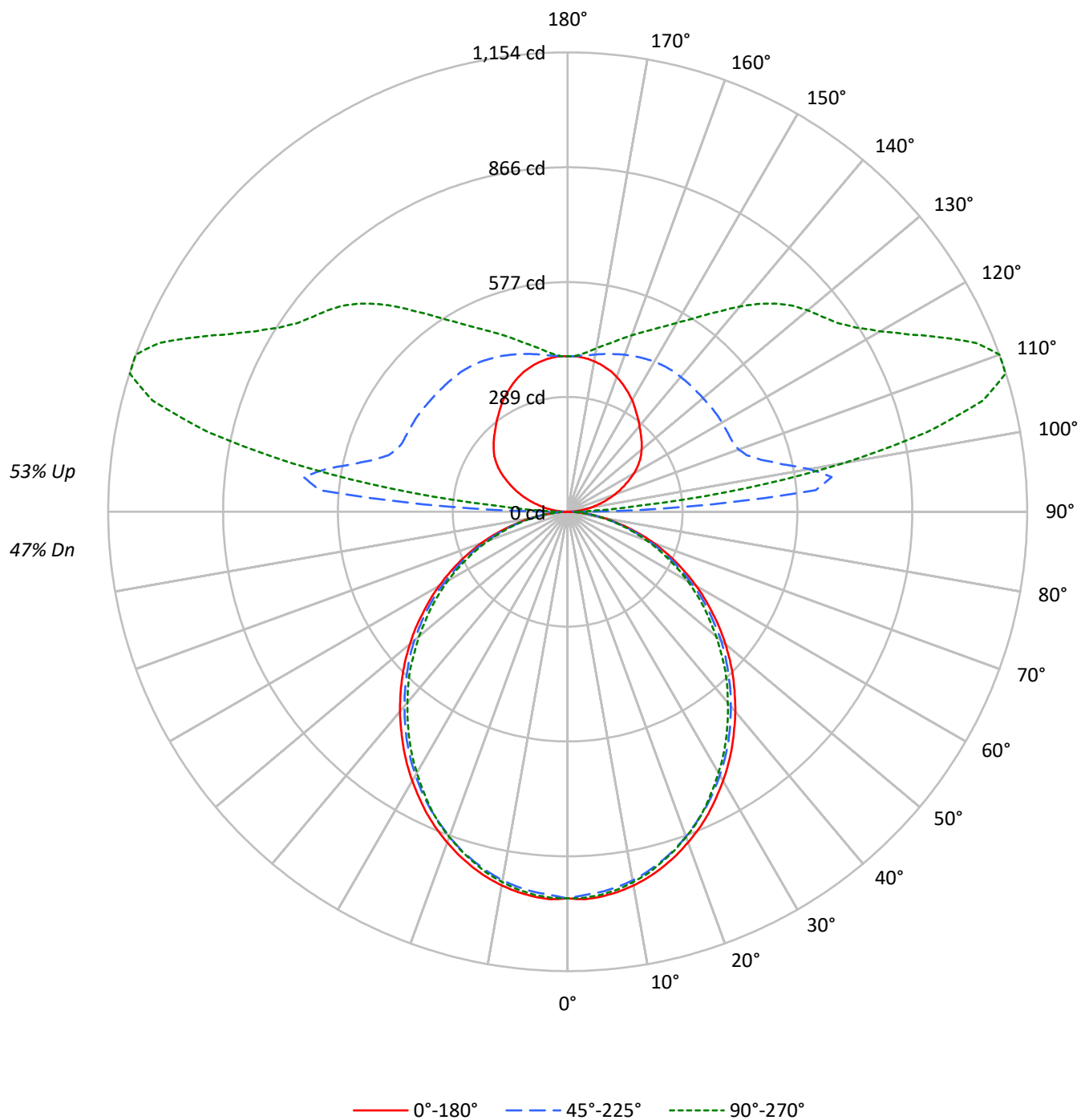
Lumens per Lamp: N/A
Luminaire Lumens: 5343.7 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	67	67	67	53	53	53	47		
1	97	93	89	85	89	85	82	79	71	69	67	59	57	55	47	46	45	39		
2	88	81	75	70	81	75	69	65	63	59	55	51	49	46	41	39	38	33		
3	81	71	64	58	74	66	59	54	55	50	46	45	42	39	37	34	32	28		
4	74	63	55	49	67	58	51	46	49	44	40	41	37	34	33	30	28	24		
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	29	26	24	21		
6	62	50	42	36	57	47	39	34	39	34	30	33	29	25	27	24	21	18		
7	58	45	37	32	53	42	35	30	36	30	26	30	26	22	24	21	19	16		
8	53	41	33	28	49	38	31	26	33	27	23	27	23	20	22	19	17	14		
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13		
10	46	34	27	22	43	32	26	21	27	22	19	23	19	16	19	16	14	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	1.7
10°-20°	257.9	4.8
20°-30°	379.6	7.1
30°-40°	441.2	8.3
40°-50°	441.2	8.3
50°-60°	385.9	7.2
60°-70°	286.5	5.4
70°-80°	162.5	3.0
80°-90°	48.1	0.9
90°-100°	290.0	5.4
100°-110°	589.8	11.0
110°-120°	525.7	9.8
120°-130°	441.6	8.3
130°-140°	368.5	6.9
140°-150°	281.4	5.3
150°-160°	197.8	3.7
160°-170°	116.4	2.2
170°-180°	37.8	0.7
0°-30°	729.1	13.6
0°-40°	1170.3	21.9
0°-60°	1997.4	37.4
0°-90°	2494.5	46.7
90°-120°	1405.6	26.3
90°-150°	2497.2	46.7
90°-180°	2849.0	53.3
0°-180°	5343.7	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°	1	6	14	15	16	4
95°	25	80	625	310	187	28
105°	90	130	503	1083	1079	96
115°	158	198	449	862	1036	157
125°	220	262	446	734	827	196
135°	262	311	443	651	739	202
145°	301	345	440	549	604	189
155°	343	370	428	485	506	158
165°	374	385	410	434	441	106
175°	390	390	394	399	397	37
180°	390	390	390	390	390	

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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°	0.8	6.1	13.8	15.3	16.1
92.5°	10.7	59.0	300.7	99.3	69.8
95°	25.3	79.8	625.1	309.5	187.2
97.5°	42.2	88.2	668.8	632.0	449.5
100°	58.3	99.7	616.7	874.4	703.4
102.5°	73.6	113.5	551.5	1026.2	924.3
105°	89.7	130.0	503.2	1083.4	1079.2
107.5°	107.4	146.9	471.7	1066.2	1152.8
110°	125.0	163.8	457.1	1004.8	1154.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.9	180.6	450.2	929.6	1109.1
115°	158.0	198.2	448.7	862.1	1036.2
117.5°	174.9	214.8	447.9	809.2	964.9
120°	191.8	230.8	447.9	773.6	906.6
122.5°	207.1	246.6	447.2	750.2	860.6
125°	220.1	261.6	446.4	733.7	826.8
127.5°	232.4	275.4	444.9	718.0	805.4
130°	242.4	288.8	444.1	699.2	787.0
132.5°	252.3	300.2	443.3	676.9	766.2
135°	261.6	311.4	442.6	651.2	739.4
137.5°	270.8	321.0	442.6	623.6	708.0
140°	280.7	329.8	441.8	596.7	673.4
142.5°	291.5	337.8	441.8	571.8	636.6
145°	301.4	345.2	440.3	549.2	603.6
147.5°	312.9	352.0	438.0	530.4	573.0
150°	323.7	358.6	435.7	513.1	547.6
152.5°	333.7	364.7	431.8	498.6	524.6
155°	342.9	370.0	428.0	484.8	505.5
157.5°	352.1	375.1	424.2	471.8	487.8
160°	360.5	379.3	419.6	458.6	471.7
162.5°	368.2	382.8	415.0	446.0	456.4
165°	373.5	385.0	410.4	434.5	441.0
167.5°	379.7	387.0	405.8	424.6	428.8
170°	383.5	388.5	401.1	414.6	417.3
172.5°	387.3	389.6	396.5	405.8	405.8
175°	389.6	390.4	393.5	398.8	397.3
177.5°	391.2	390.4	391.2	393.8	391.2
180°	390.4	390.4	390.4	390.4	390.4

(END OF REPORT)