

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: P1025595

Luminaire Tested: S124DIP-B575D365UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025595
REPORT IS A COMBINATION OF REPORTS P996180 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B575D365UB35-4F0-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

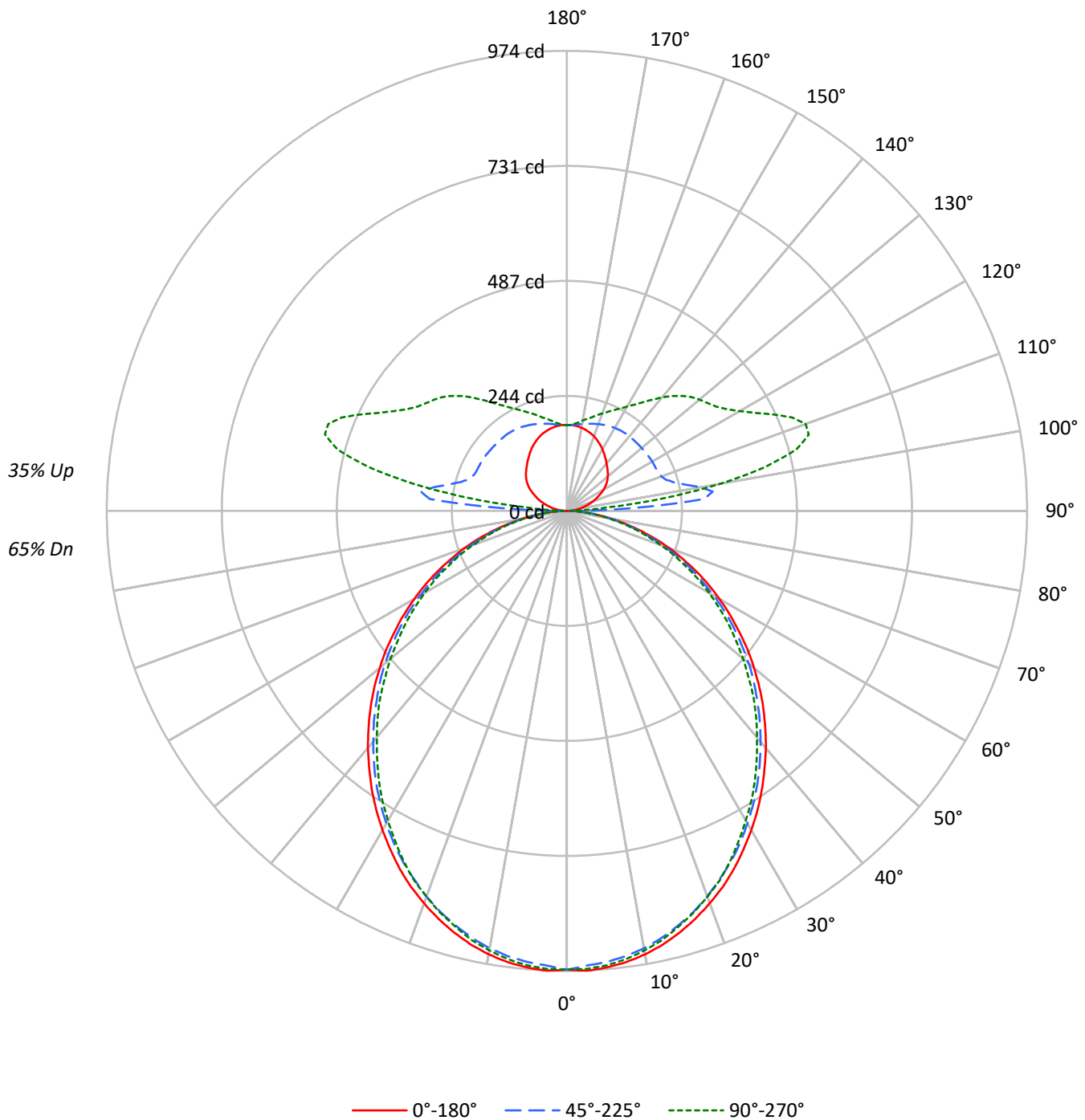
Lumens per Lamp: N/A
Luminaire Lumens: 3820.6 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33.3
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70
1	101	97	93	89	95	91	88	84	81	78	75	71	69	67	62	61	59
2	92	84	78	73	86	80	74	69	71	66	63	62	59	56	55	52	50
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42
4	77	66	58	51	72	62	55	49	55	50	45	49	44	41	43	40	37
5	71	59	50	44	66	56	48	42	50	44	39	44	39	35	39	35	32
6	65	53	44	38	61	50	42	37	45	39	34	40	35	31	35	31	28
7	60	48	40	34	57	45	38	33	41	35	30	36	31	27	32	28	25
8	56	43	36	30	53	41	34	29	37	31	27	33	28	25	30	26	22
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20
10	49	37	29	24	46	35	28	23	32	26	22	28	24	20	25	21	18

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	2.4
10°-20°	257.9	6.8
20°-30°	379.6	9.9
30°-40°	441.2	11.5
40°-50°	441.2	11.5
50°-60°	385.9	10.1
60°-70°	286.5	7.5
70°-80°	162.5	4.3
80°-90°	47.3	1.2
90°-100°	135.1	3.5
100°-110°	274.7	7.2
110°-120°	244.9	6.4
120°-130°	205.7	5.4
130°-140°	171.6	4.5
140°-150°	131.1	3.4
150°-160°	92.1	2.4
160°-170°	54.2	1.4
170°-180°	17.6	0.5
0°-30°	729.1	19.1
0°-40°	1170.3	30.6
0°-60°	1997.4	52.3
0°-90°	2493.7	65.3
90°-120°	654.6	17.1
90°-150°	1163.0	30.4
90°-180°	1327.0	34.7
0°-180°	3820.6	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°	0	3	6	7	8	4
95°	12	37	291	144	87	13
105°	42	61	234	505	503	45
115°	74	92	209	402	483	73
125°	102	122	208	342	385	91
135°	122	145	206	303	344	94
145°	140	161	205	256	281	88
155°	160	172	199	226	235	74
165°	174	179	191	202	205	49
175°	182	182	183	186	185	17
180°	182	182	182	182	182	

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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°	0.4	2.9	6.4	7.1	7.5
92.5°	5.0	27.5	140.0	46.2	32.5
95°	11.8	37.2	291.1	144.2	87.2
97.5°	19.6	41.1	311.5	294.4	209.3
100°	27.1	46.4	287.2	407.2	327.6
102.5°	34.3	52.8	256.8	478.0	430.5
105°	41.8	60.6	234.3	504.6	502.6
107.5°	50.0	68.4	219.7	496.5	536.9
110°	58.2	76.2	212.9	468.0	537.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.1	84.1	209.7	433.0	516.5
115°	73.6	92.4	209.0	401.5	482.6
117.5°	81.4	100.0	208.6	376.9	449.4
120°	89.3	107.5	208.6	360.2	422.2
122.5°	96.4	114.8	208.3	349.4	400.8
125°	102.5	121.8	207.9	341.7	385.1
127.5°	108.2	128.2	207.2	334.4	375.1
130°	112.9	134.5	206.8	325.6	366.5
132.5°	117.5	139.8	206.5	315.2	356.9
135°	121.8	145.0	206.1	303.3	344.4
137.5°	126.1	149.5	206.1	290.4	329.7
140°	130.7	153.6	205.8	277.9	313.6
142.5°	135.7	157.4	205.8	266.4	296.5
145°	140.4	160.8	205.0	255.8	281.1
147.5°	145.7	164.0	204.0	247.0	266.8
150°	150.7	167.0	202.9	239.0	255.1
152.5°	155.4	169.9	201.1	232.2	244.3
155°	159.7	172.4	199.3	225.8	235.4
157.5°	164.0	174.6	197.5	219.7	227.2
160°	167.9	176.6	195.4	213.6	219.7
162.5°	171.5	178.2	193.3	207.8	212.5
165°	174.0	179.4	191.1	202.4	205.4
167.5°	176.8	180.2	189.0	197.8	199.7
170°	178.6	181.0	186.8	193.0	194.3
172.5°	180.4	181.4	184.7	189.0	189.0
175°	181.5	181.8	183.3	185.8	185.0
177.5°	182.2	181.8	182.2	183.4	182.2
180°	181.8	181.8	181.8	181.8	181.8

(END OF REPORT)