

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: P1025591

Luminaire Tested: S124DIP-B575D365UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025591
REPORT IS A COMBINATION OF REPORTS P996176 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-D1
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

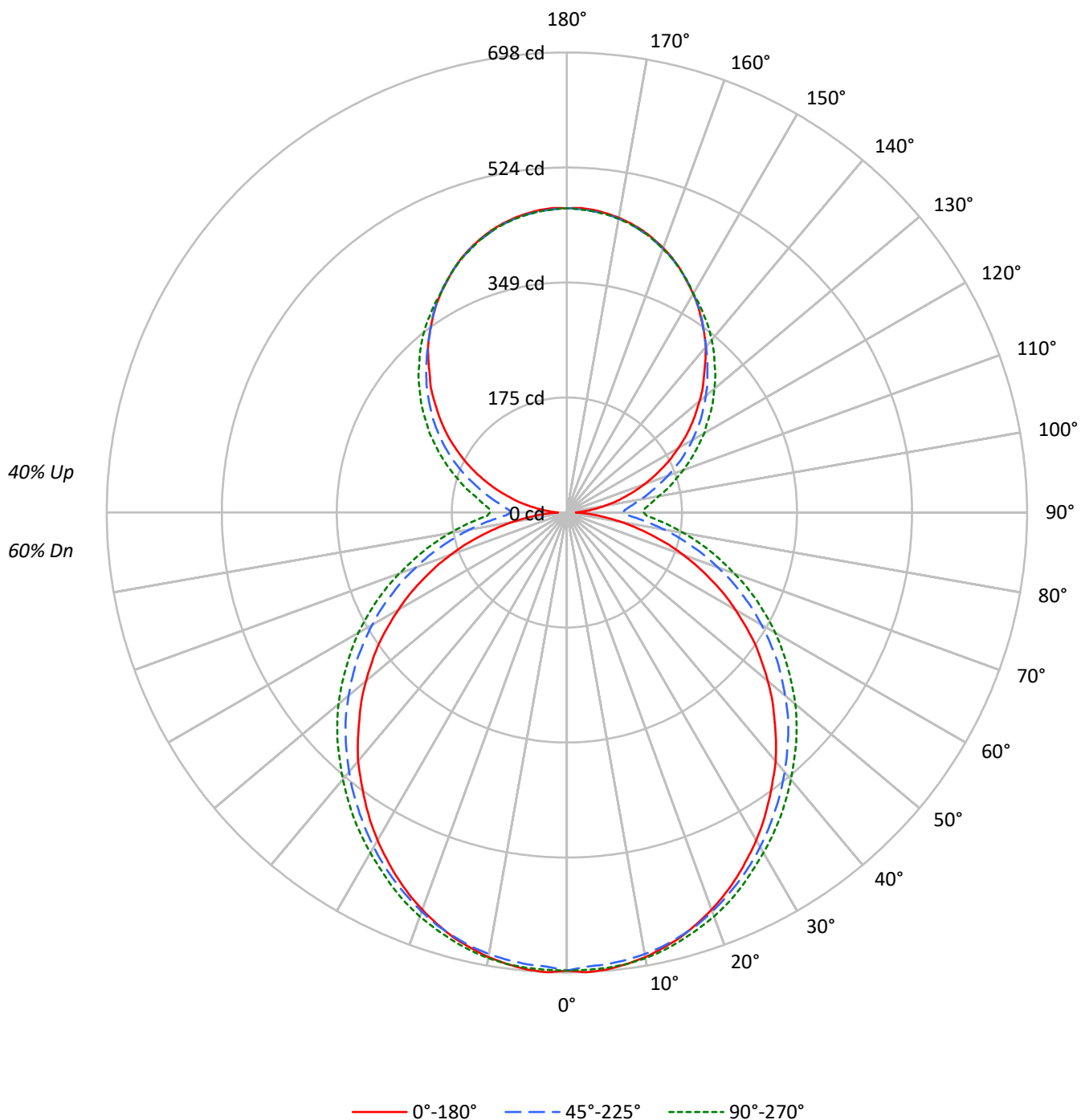
Lumens per Lamp: N/A
Luminaire Lumens: 3652.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1025591

CATALOG NUMBER: S124DIP-B575D365UB35-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



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CATALOG NUMBER: S124DIP-B575D365UB35-4F0-XX-W2A-D1

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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65
1	99	94	89	86	92	88	84	80	76	73	71	66	63	61	56	54	53
2	89	81	75	69	83	76	70	65	66	61	57	57	53	50	48	46	43
3	81	71	63	57	75	66	59	54	58	52	48	50	46	42	42	39	36
4	74	63	54	48	69	59	51	45	51	45	40	44	39	36	38	34	31
5	68	56	47	41	63	52	44	39	46	39	35	40	35	31	34	30	27
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	23
7	58	45	37	31	54	42	35	29	37	31	26	32	27	24	28	24	21
8	54	41	33	27	50	38	31	26	34	28	23	30	25	21	26	22	19
9	50	37	29	24	47	35	28	23	31	25	21	27	22	19	24	20	17
10	47	34	27	22	44	32	25	21	29	23	19	25	20	17	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5668	5668	5668
5°	5684	5521	5531
10°	5647	5412	5397
15°	5594	5290	5246
20°	5516	5157	5098
25°	5428	5012	4940
30°	5333	4868	4779
35°	5224	4720	4635
40°	5137	4578	4486
45°	5010	4445	4354
50°	4901	4294	4216
55°	4787	4148	4055
60°	4611	3967	3905
65°	4419	3772	3724
70°	4185	3547	3514
75°	3859	3300	3315
80°	3488	3046	3106
85°	3005	2793	2937

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5010 cd/sqm

TEST NUMBER: P1025591

CATALOG NUMBER: S124DIP-B575D365UB35-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.8
10°-20°	188.7	5.2
20°-30°	285.3	7.8
30°-40°	345.2	9.5
40°-50°	364.9	10.0
50°-60°	343.5	9.4
60°-70°	285.0	7.8
70°-80°	200.0	5.5
80°-90°	113.7	3.1
90°-100°	97.2	2.7
100°-110°	139.9	3.8
110°-120°	186.5	5.1
120°-130°	220.7	6.0
130°-140°	235.0	6.4
140°-150°	224.5	6.1
150°-160°	187.5	5.1
160°-170°	124.8	3.4
170°-180°	43.7	1.2
0°-30°	539.9	14.8
0°-40°	885.1	24.2
0°-60°	1593.5	43.6
0°-90°	2192.3	60.0
90°-120°	423.5	11.6
90°-150°	1103.8	30.2
90°-180°	1460.0	40.0
0°-180°	3652.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	695	695	695	695	695	
5°	696	694	688	694	694	66
15°	667	668	666	673	672	188
25°	610	615	617	626	627	281
35°	534	543	551	562	564	334
45°	445	460	475	488	492	344
55°	349	365	388	404	409	311
65°	241	266	293	312	318	239
75°	134	163	195	217	224	142
85°	41	74	109	132	140	43
90°	14	49	85	110	117	10
95°	32	60	95	117	124	31
105°	90	106	136	157	164	96
115°	160	167	192	208	214	158
125°	230	229	248	262	266	205
135°	294	296	302	313	317	228
145°	356	357	357	361	363	223
155°	407	407	407	408	407	187
165°	443	442	441	444	442	125
175°	461	459	459	461	459	44
180°	462	462	462	462	462	

TEST NUMBER: P1025591

CATALOG NUMBER: S124DIP-B575D365UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	695.1	695.1	695.1	695.1	695.1
2.5°	698.2	695.9	689.7	695.1	694.4
5°	695.9	693.6	688.1	694.4	693.6
7.5°	691.2	689.7	685.0	692.0	691.2
10°	685.0	684.2	680.3	687.4	686.6
12.5°	676.5	676.5	674.1	680.3	680.3
15°	667.1	667.9	665.6	672.6	671.8
17.5°	654.7	657.0	656.2	663.2	662.4
20°	641.4	643.8	644.5	652.3	652.3
22.5°	626.6	629.7	631.3	639.1	640.6
25°	610.3	615.0	617.3	625.9	626.6
27.5°	592.4	599.4	602.5	610.3	611.1
30°	574.5	580.7	586.2	594.7	596.3
32.5°	555.0	562.8	569.0	579.1	580.7
35°	534.0	543.3	551.1	562.0	564.4
37.5°	513.0	523.9	533.2	544.1	546.5
40°	492.7	502.9	513.8	525.4	528.6
42.5°	469.4	481.1	494.3	507.5	509.9
45°	445.3	460.1	474.8	488.1	492.0
47.5°	422.7	437.5	454.6	467.8	472.5
50°	397.8	414.9	432.0	447.6	452.3
52.5°	372.9	390.0	410.2	425.8	430.5
55°	348.7	365.1	388.4	404.0	408.7
57.5°	321.5	341.7	364.3	383.0	386.9
60°	295.0	315.3	341.0	358.9	365.1
62.5°	269.3	291.9	317.6	335.5	341.7
65°	241.3	266.2	292.7	312.1	318.4
67.5°	214.8	241.3	269.3	288.8	295.0
70°	187.6	214.1	243.6	264.7	270.1
72.5°	161.1	188.4	220.3	240.5	246.8
75°	133.9	162.7	195.4	217.2	224.2
77.5°	108.2	138.6	172.8	194.6	202.4
80°	84.8	116.0	150.2	173.6	179.8
82.5°	61.5	94.2	128.4	152.6	159.6
85°	41.3	74.0	109.0	132.3	140.1
87.5°	25.7	57.6	91.9	114.4	121.4
90°	13.6	48.6	85.0	109.6	116.6
92.5°	21.0	52.8	88.1	111.0	117.5
95°	31.5	60.4	94.8	116.9	123.9
97.5°	43.6	69.0	103.8	125.5	132.5
100°	58.6	80.2	113.8	135.5	140.9
102.5°	75.0	92.5	124.9	146.2	152.8
105°	90.2	106.2	136.4	156.9	164.2
107.5°	107.7	121.2	148.9	169.7	174.9
110°	124.7	136.4	163.3	180.5	187.8



TEST NUMBER: P1025591

CATALOG NUMBER: S124DIP-B575D365UB35-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	142.5	151.9	176.9	194.0	200.2
115°	160.4	167.4	191.6	208.3	213.5
117.5°	177.9	182.5	205.5	220.7	226.0
120°	194.6	198.3	219.8	233.6	240.6
122.5°	212.8	213.1	233.8	248.3	251.9
125°	229.8	229.0	248.2	262.3	266.3
127.5°	245.9	246.2	261.1	274.3	279.5
130°	262.2	262.6	275.0	288.3	291.6
132.5°	279.7	279.8	288.7	301.2	305.5
135°	294.0	296.2	301.6	313.4	316.9
137.5°	310.8	311.1	314.9	325.5	329.8
140°	327.6	327.5	328.3	338.1	341.6
142.5°	342.2	342.9	341.7	350.3	353.4
145°	356.1	356.7	357.1	361.4	363.4
147.5°	370.4	371.3	371.0	371.4	374.2
150°	383.2	383.8	383.8	383.8	383.5
152.5°	394.6	395.3	395.6	396.7	395.6
155°	407.1	407.1	406.7	408.1	406.7
157.5°	417.8	417.1	417.1	418.1	417.1
160°	427.1	426.7	426.3	427.4	425.6
162.5°	435.6	434.6	434.2	436.3	434.6
165°	443.1	442.0	441.3	443.5	442.0
167.5°	449.2	447.8	447.8	449.9	447.8
170°	454.2	452.4	452.8	454.9	452.4
172.5°	457.8	456.3	456.3	458.8	456.3
175°	461.0	459.2	458.8	461.3	458.8
177.5°	462.4	460.6	460.6	463.1	460.3
180°	461.7	461.7	461.7	461.7	461.7

(END OF REPORT)