

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: P1025590

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025590
REPORT IS A COMBINATION OF REPORTS P996175 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-D
Description: Define 4 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

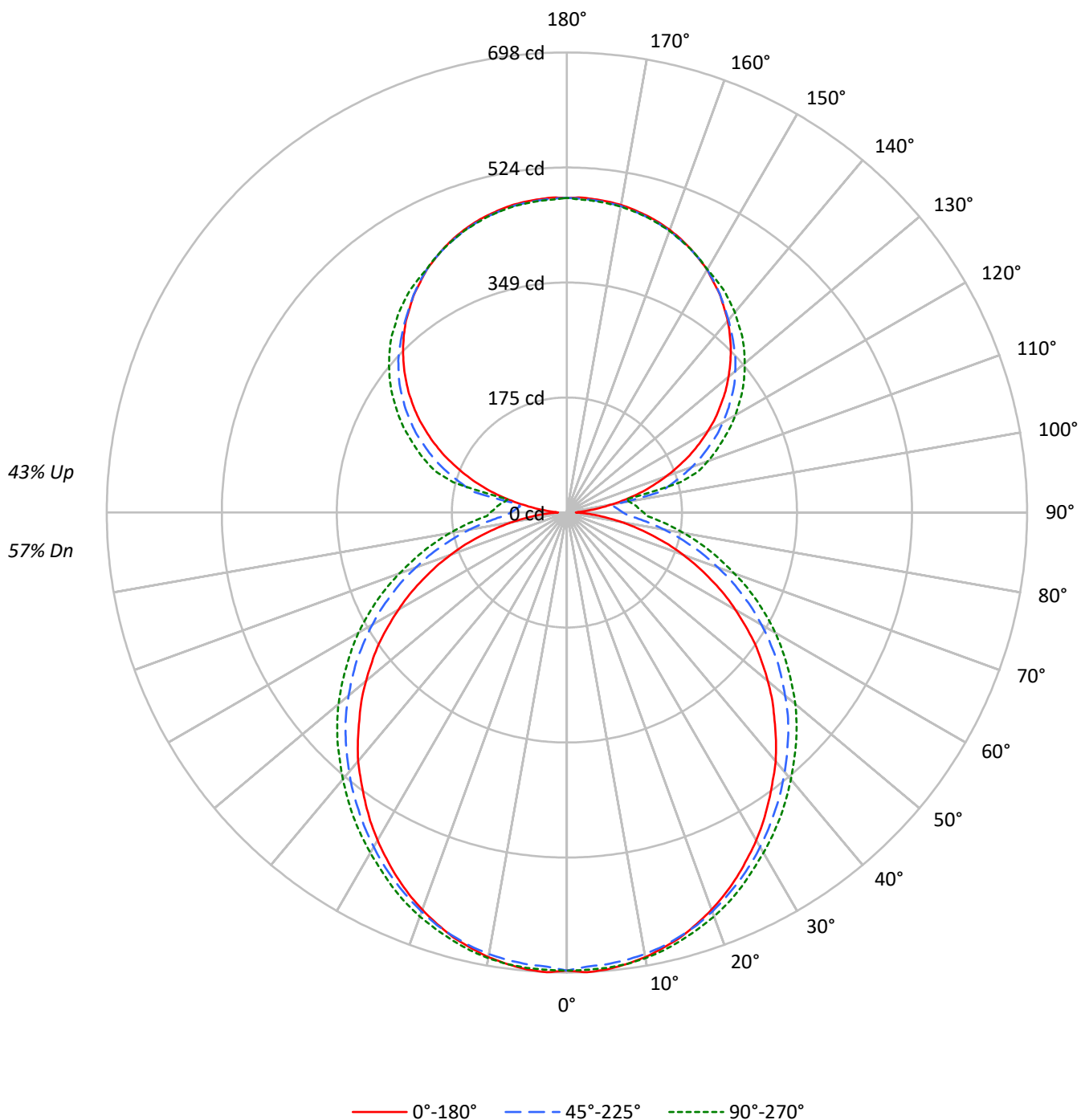
Lumens per Lamp: N/A
Luminaire Lumens: 3848.0 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63
1	98	93	89	85	91	87	83	80	75	72	69	64	62	60	53	52	51
2	89	81	74	68	82	75	69	64	65	60	56	55	52	49	46	44	42
3	81	71	63	56	75	66	59	53	57	51	47	48	44	41	41	38	35
4	74	62	54	47	68	58	51	45	50	44	40	43	38	35	36	33	30
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	32	29	26
6	62	50	41	35	58	46	39	33	40	34	29	35	30	26	29	25	22
7	58	45	36	31	53	42	34	29	36	30	26	31	27	23	27	23	20
8	53	41	32	27	49	38	31	26	33	27	23	29	24	20	24	21	18
9	50	37	29	24	46	35	28	23	30	25	20	26	22	18	23	19	16
10	46	34	26	21	43	32	25	20	28	22	18	24	20	16	21	17	14

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.9	1.7
10°-20°	188.7	4.9
20°-30°	285.3	7.4
30°-40°	345.2	9.0
40°-50°	364.9	9.5
50°-60°	343.5	8.9
60°-70°	285.0	7.4
70°-80°	200.0	5.2
80°-90°	113.7	3.0
90°-100°	83.0	2.2
100°-110°	154.1	4.0
110°-120°	232.6	6.0
120°-130°	271.7	7.1
130°-140°	278.7	7.2
140°-150°	254.7	6.6
150°-160°	204.1	5.3
160°-170°	131.6	3.4
170°-180°	45.4	1.2
0°-30°	539.9	14.0
0°-40°	885.1	23.0
0°-60°	1593.5	41.4
0°-90°	2192.3	57.0
90°-120°	469.6	12.2
90°-150°	1274.7	33.1
90°-180°	1656.0	43.0
0°-180°	3848.0	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°	30	43	76	99	106	32
105°	114	132	163	185	179	120
115°	205	213	238	256	261	202
125°	285	286	305	320	326	255
135°	352	351	358	371	376	271
145°	404	404	404	410	413	253
155°	442	443	442	443	442	204
165°	467	465	465	468	464	132
175°	477	475	476	479	474	45
180°	477	477	477	477	477	

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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°	17.1	43.5	79.9	103.8	110.0
95°	29.7	43.3	75.6	98.7	106.1
97.5°	46.8	77.2	71.7	93.7	101.1
100°	67.2	93.8	74.9	89.8	95.6
102.5°	90.7	112.1	146.0	85.9	92.1
105°	114.5	132.2	162.8	185.4	178.8
107.5°	137.7	151.9	181.7	202.9	209.8
110°	160.4	172.4	201.8	220.5	227.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.5	194.0	220.4	237.2	244.8
115°	205.3	213.4	238.0	255.8	261.3
117.5°	226.4	232.4	256.9	272.8	279.1
120°	247.0	250.8	273.0	289.3	294.8
122.5°	267.0	267.7	289.4	305.4	310.1
125°	285.1	285.8	304.6	320.4	325.5
127.5°	303.3	302.9	320.3	333.9	339.1
130°	320.0	319.7	333.2	347.5	352.2
132.5°	336.1	336.1	346.8	360.4	364.7
135°	351.5	351.1	357.9	371.2	376.5
137.5°	365.8	365.0	369.8	382.3	385.8
140°	379.7	379.6	381.1	392.3	396.5
142.5°	391.4	392.8	392.4	401.7	404.8
145°	404.2	404.5	404.5	409.6	413.4
147.5°	414.2	415.6	415.2	416.4	419.8
150°	425.3	425.9	425.6	425.6	425.9
152.5°	433.8	434.8	434.1	434.8	434.5
155°	442.3	442.7	441.6	443.1	442.0
157.5°	449.8	449.8	448.4	450.2	448.4
160°	456.3	455.2	454.8	457.0	454.8
162.5°	462.0	460.5	460.2	462.3	459.8
165°	466.6	464.8	464.8	467.7	464.5
167.5°	470.5	468.8	468.4	471.6	468.0
170°	473.8	471.6	472.0	474.8	471.3
172.5°	475.9	473.8	474.1	477.0	473.0
175°	477.3	475.2	475.5	478.8	474.5
177.5°	478.4	475.9	476.6	479.5	475.2
180°	477.3	477.3	477.3	477.3	477.3

(END OF REPORT)