

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: P1010946

Luminaire Tested: S123RDIP-B560D365UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010946
REPORT IS A COMBINATION OF REPORTS P993412 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D365UB2750-4F0-XX-W2A-F_3500K
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

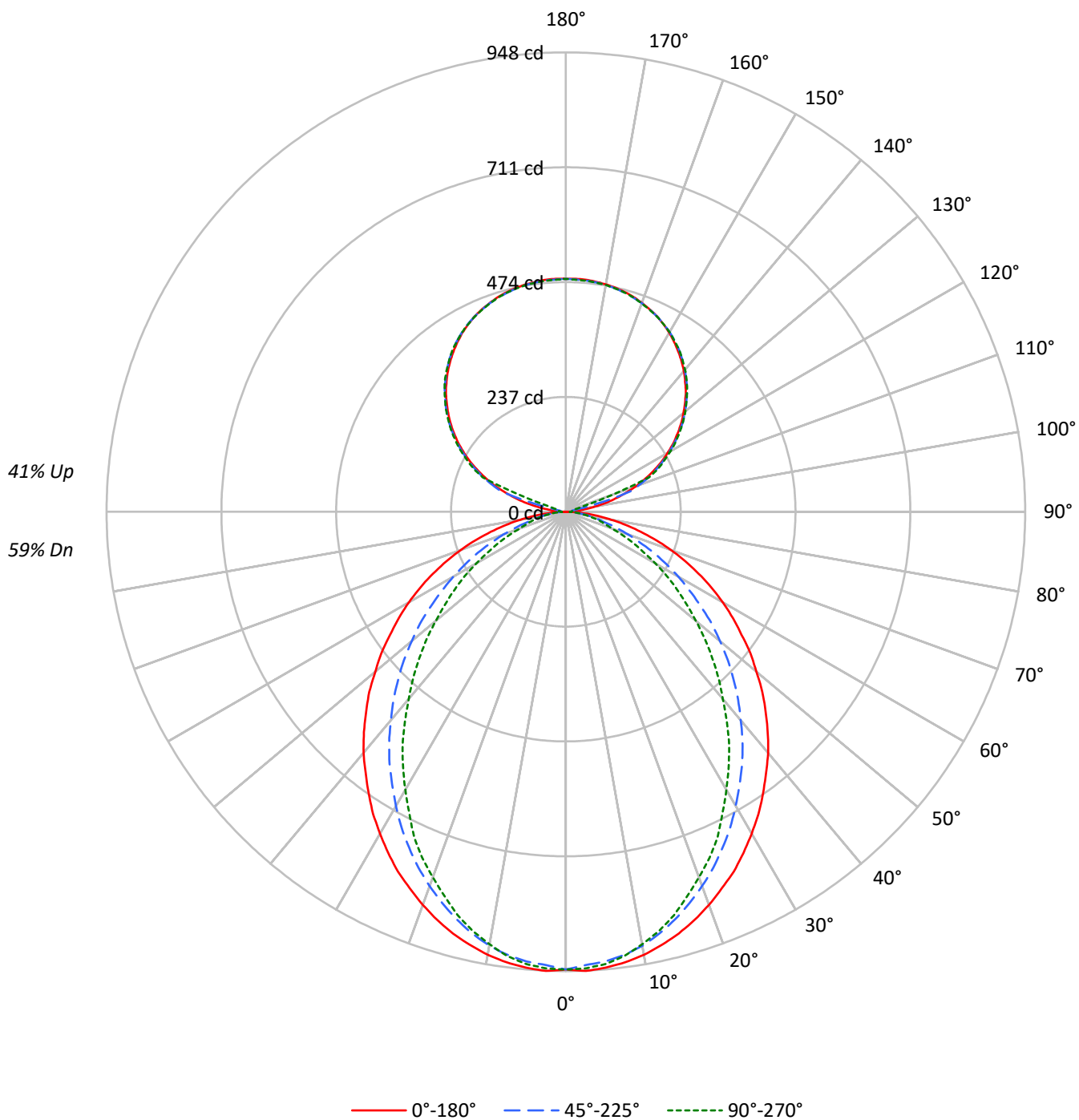
Lumens per Lamp: N/A
Luminaire Lumens: 3600.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	59		
1	100	96	92	89	93	90	87	84	78	76	74	68	66	64	58	57	55	51		
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	51	49	47	43		
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	41	37		
4	77	66	58	52	72	62	55	50	55	49	45	48	43	40	41	38	35	32		
5	71	59	51	45	66	56	48	43	49	43	39	43	38	35	37	34	31	28		
6	65	53	45	39	61	50	43	38	44	39	34	39	34	31	34	30	27	25		
7	61	48	40	35	56	46	38	33	40	35	30	36	31	27	31	27	25	22		
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	22	20		
9	52	40	33	28	49	38	31	27	34	28	24	30	26	22	26	23	20	18		
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10168	10168	10168
5°	10184	9808	9781
10°	10104	9440	9253
15°	9972	8983	8675
20°	9801	8487	8028
25°	9623	7972	7415
30°	9396	7425	6691
35°	9161	6886	6032
40°	8940	6301	5303
45°	8658	5730	4648
50°	8347	5119	3970
55°	8023	4466	3349
60°	7715	3796	2718
65°	7315	3108	2122
70°	6814	2351	1516
75°	6090	1592	1201
80°	5201	1107	842
85°	3900	599	441

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8658 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.8	2.5
10°-20°	247.0	6.9
20°-30°	355.7	9.9
30°-40°	400.5	11.1
40°-50°	383.1	10.6
50°-60°	313.6	8.7
60°-70°	211.5	5.9
70°-80°	106.1	2.9
80°-90°	28.7	0.8
90°-100°	16.9	0.5
100°-110°	81.9	2.3
110°-120°	200.8	5.6
120°-130°	254.9	7.1
130°-140°	272.3	7.6
140°-150°	254.6	7.1
150°-160°	205.4	5.7
160°-170°	132.5	3.7
170°-180°	45.7	1.3
0°-30°	691.5	19.2
0°-40°	1092.0	30.3
0°-60°	1788.8	49.7
0°-90°	2135.0	59.3
90°-120°	299.6	8.3
90°-150°	1081.4	30.0
90°-180°	1465.0	40.7
0°-180°	3600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	945	941	932	938	937	90
15°	901	892	871	867	862	254
25°	820	801	765	749	741	377
35°	709	682	634	601	588	444
45°	583	548	490	446	428	450
55°	443	405	340	296	280	397
65°	303	260	201	163	155	299
75°	160	123	81	74	72	171
85°	41	24	22	20	20	44
90°	0	4	9	10	11	4
95°	22	7	11	14	14	26
105°	106	110	78	15	16	113
115°	200	202	205	208	210	197
125°	281	284	286	286	287	251
135°	350	352	354	355	354	270
145°	404	407	407	408	408	253
155°	445	444	445	447	444	205
165°	470	468	468	471	468	133
175°	481	479	479	482	479	46
180°	481	481	481	481	481	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.6	944.6	944.6	944.6	944.6
2.5°	948.4	945.4	936.2	944.6	943.1
5°	944.6	940.8	931.6	938.5	936.9
7.5°	937.7	933.9	922.4	927.0	924.7
10°	928.5	923.1	909.4	910.1	906.3
12.5°	915.5	909.4	891.7	891.0	886.4
15°	900.9	892.5	871.0	867.2	861.9
17.5°	883.3	874.1	847.3	839.6	832.0
20°	863.4	851.1	822.0	812.1	802.9
22.5°	841.2	826.6	795.2	782.2	773.8
25°	819.7	800.6	765.3	749.2	740.8
27.5°	793.7	773.0	734.7	713.2	700.2
30°	766.9	743.9	701.0	674.9	662.7
32.5°	740.0	713.2	667.3	638.2	625.1
35°	709.4	681.8	634.3	601.4	587.6
37.5°	678.8	648.9	599.1	562.3	545.5
40°	649.6	615.9	561.5	521.7	504.1
42.5°	616.7	583.0	526.3	481.9	466.6
45°	583.0	548.5	489.5	445.9	427.5
47.5°	550.1	511.7	453.5	406.0	389.9
50°	513.3	477.3	415.2	367.7	350.1
52.5°	480.3	440.5	379.2	329.4	314.1
55°	442.8	405.3	340.1	295.7	280.4
57.5°	409.1	368.5	302.6	260.5	247.4
60°	373.9	331.7	268.1	226.8	213.7
62.5°	338.6	296.5	232.9	194.6	180.8
65°	302.6	260.5	200.7	163.2	154.8
67.5°	266.6	223.7	165.5	137.1	127.9
70°	231.4	190.0	136.4	109.6	101.1
72.5°	196.1	155.5	108.0	87.3	85.0
75°	160.1	123.3	81.2	73.5	72.0
77.5°	127.2	93.5	63.6	59.0	57.5
80°	95.8	64.4	48.3	46.0	44.4
82.5°	65.9	39.8	34.5	32.2	32.2
85°	40.6	23.7	21.5	19.9	19.9
87.5°	18.4	10.0	10.0	9.2	8.4
90°	0.4	3.9	8.6	10.0	10.7
92.5°	8.2	6.1	9.3	11.8	12.1
95°	21.8	7.1	11.1	13.6	13.6
97.5°	39.6	29.6	11.4	14.3	14.6
100°	60.3	67.5	11.8	14.6	15.0
102.5°	83.9	88.5	26.4	14.6	15.4
105°	106.4	110.3	78.2	15.0	15.7
107.5°	130.3	133.5	138.9	83.9	37.1
110°	154.2	157.1	161.0	149.2	98.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.1	179.6	183.5	186.7	186.0
115°	199.6	201.7	204.9	208.5	209.9
117.5°	221.7	224.2	226.0	228.9	229.2
120°	242.1	245.3	246.4	249.2	249.2
122.5°	262.8	265.3	266.7	268.5	268.8
125°	281.3	284.2	285.6	286.3	287.1
127.5°	299.9	302.8	304.5	305.6	304.9
130°	317.0	319.9	321.3	322.8	322.0
132.5°	333.5	336.3	337.4	338.8	337.8
135°	350.2	352.4	353.8	354.9	353.8
137.5°	364.5	367.4	368.1	369.9	369.2
140°	378.8	381.0	382.0	383.5	382.7
142.5°	392.0	394.2	395.2	396.3	395.2
145°	404.2	406.7	407.4	408.1	408.1
147.5°	415.9	417.7	418.4	419.2	417.4
150°	426.7	427.7	428.4	429.2	428.1
152.5°	436.3	436.6	437.0	438.4	436.6
155°	445.2	444.5	444.9	446.6	444.5
157.5°	452.4	452.4	452.0	454.1	451.3
160°	458.8	458.4	458.1	460.2	457.7
162.5°	464.9	463.8	463.4	465.9	463.8
165°	469.5	468.4	468.1	470.9	468.4
167.5°	473.4	472.0	472.0	474.9	472.0
170°	476.6	475.2	475.2	478.1	475.2
172.5°	478.8	477.0	477.4	480.2	477.0
175°	480.6	478.8	479.1	481.6	478.8
177.5°	481.3	479.5	479.8	482.7	479.1
180°	480.6	480.6	480.6	480.6	480.6

(END OF REPORT)