

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: P1012629

Luminaire Tested: S123RDIP-B560D365UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012629
REPORT IS A COMBINATION OF REPORTS P993426 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D365UB35-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

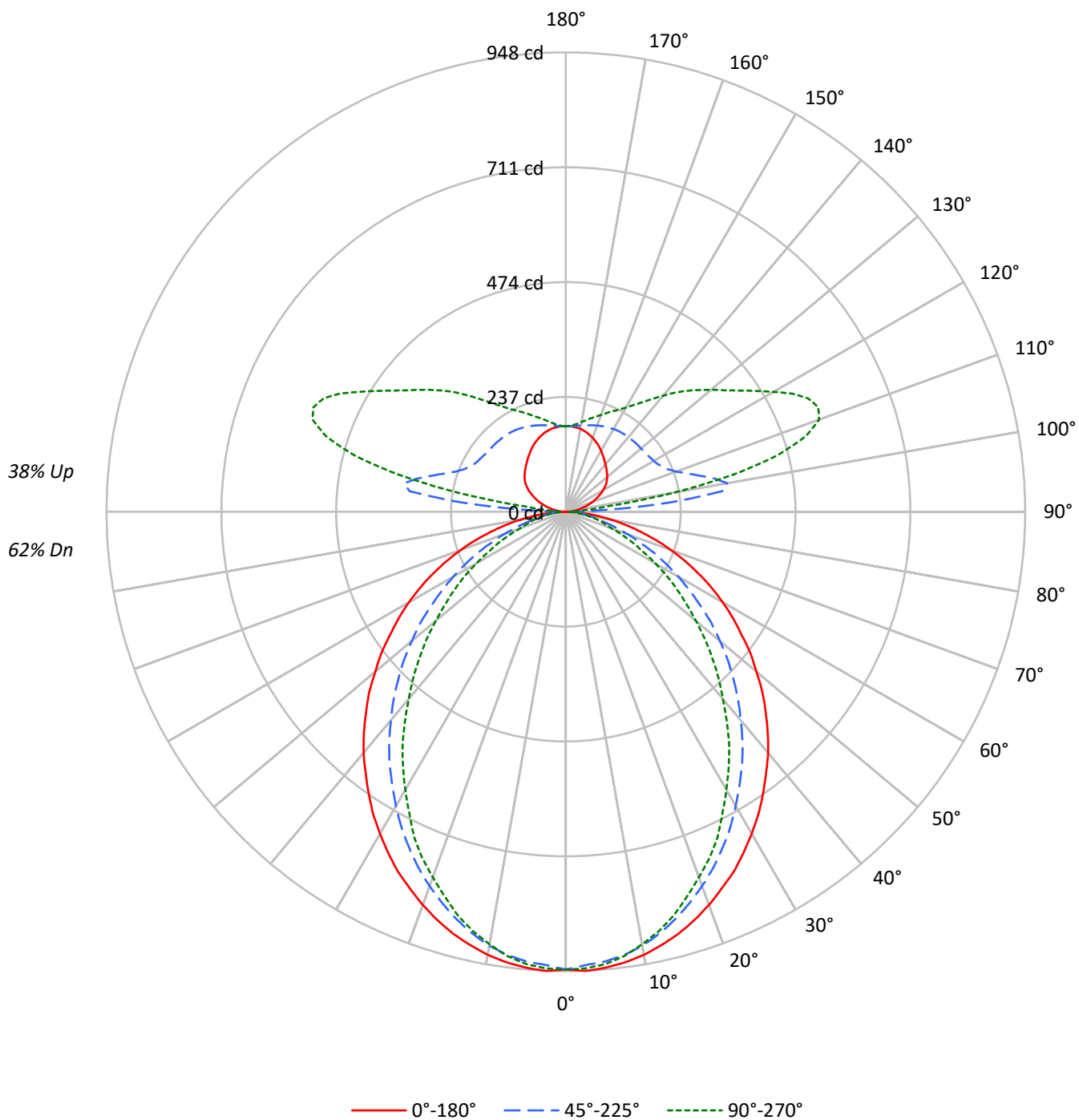
Lumens per Lamp: N/A
Luminaire Lumens: 3465.1 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	67	67	62
1	101	97	93	89	94	91	87	84	79	77	75	69	67	66	60	58	57	57	57	53
2	92	85	79	74	86	80	74	70	70	66	63	61	58	56	53	51	49	49	49	45
3	84	75	68	62	79	70	64	59	62	57	53	54	51	47	47	44	42	42	42	38
4	77	67	59	53	72	63	56	50	56	50	46	49	44	41	43	39	37	37	37	33
5	71	60	51	45	66	56	49	43	50	44	40	44	39	36	39	35	32	32	32	29
6	66	54	46	40	61	51	43	38	45	39	35	40	35	32	35	31	28	28	28	26
7	61	49	41	35	57	46	39	34	41	35	31	36	32	28	32	28	25	25	25	23
8	57	44	37	31	53	42	35	30	38	32	28	33	29	25	30	26	23	23	23	21
9	53	41	33	28	50	39	32	27	35	29	25	31	26	23	27	24	21	21	21	19
10	49	37	30	25	46	35	29	24	32	26	23	29	24	21	25	22	19	19	19	17

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	2.6
10°-20°	247.0	7.1
20°-30°	355.7	10.3
30°-40°	400.5	11.6
40°-50°	383.1	11.1
50°-60°	313.6	9.1
60°-70°	211.5	6.1
70°-80°	106.1	3.1
80°-90°	28.7	0.8
90°-100°	100.2	2.9
100°-110°	280.2	8.1
110°-120°	273.2	7.9
120°-130°	217.6	6.3
130°-140°	171.7	5.0
140°-150°	128.1	3.7
150°-160°	89.4	2.6
160°-170°	52.5	1.5
170°-180°	17.1	0.5
0°-30°	691.5	20.0
0°-40°	1092.0	31.5
0°-60°	1788.8	51.6
0°-90°	2135.0	61.6
90°-120°	653.7	18.9
90°-150°	1171.1	33.8
90°-180°	1330.0	38.4
0°-180°	3465.1	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°	1	4	9	10	10	3
95°	12	39	212	62	41	13
105°	41	61	287	502	454	44
115°	73	91	220	482	552	72
125°	102	120	205	371	436	90
135°	119	142	202	306	353	92
145°	136	156	200	251	276	85
155°	155	167	193	220	229	71
165°	169	174	185	196	200	48
175°	176	176	178	180	180	17
180°	176	176	176	176	176	

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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°	0.7	4.2	8.9	10.0	10.4
92.5°	5.4	21.4	66.4	22.6	18.9
95°	12.1	39.4	211.8	61.8	41.4
97.5°	19.3	45.2	325.7	155.4	85.0
100°	26.4	49.8	338.2	325.0	223.9
102.5°	33.9	55.2	315.0	435.2	354.6
105°	41.4	61.2	287.1	502.2	454.3
107.5°	49.3	68.4	262.5	531.6	519.3
110°	57.9	75.7	242.1	532.5	556.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.7	83.4	228.6	512.2	563.9
115°	73.2	91.2	219.6	481.6	552.5
117.5°	80.7	98.8	213.6	448.7	527.5
120°	88.6	106.2	209.6	417.6	494.6
122.5°	95.4	113.4	207.1	393.2	463.9
125°	101.8	120.2	205.0	371.4	435.7
127.5°	106.8	126.6	203.9	353.6	411.4
130°	111.4	132.3	202.8	337.2	391.4
132.5°	115.0	137.4	202.5	321.8	371.8
135°	119.3	142.3	202.1	305.8	353.2
137.5°	123.2	146.2	201.4	290.9	333.5
140°	127.1	149.8	201.1	276.2	312.8
142.5°	131.4	153.0	200.3	262.8	293.6
145°	136.1	155.9	199.6	250.9	276.1
147.5°	140.7	158.9	198.6	241.6	261.1
150°	145.3	161.4	197.1	233.4	248.2
152.5°	150.0	164.1	195.3	226.2	237.5
155°	154.6	166.8	193.2	219.6	228.9
157.5°	158.2	169.1	191.4	213.2	220.7
160°	162.5	171.0	189.3	207.4	212.8
162.5°	165.7	172.5	187.1	201.8	205.7
165°	168.9	173.8	185.0	196.2	199.6
167.5°	171.4	174.8	182.8	191.4	193.6
170°	173.6	175.4	180.7	187.2	188.2
172.5°	175.0	175.9	178.9	183.4	183.2
175°	176.1	176.2	177.5	180.0	179.6
177.5°	176.8	176.4	176.4	177.8	177.1
180°	176.4	176.4	176.4	176.4	176.4

(END OF REPORT)