

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: P1012569

Luminaire Tested: S123RDIP-B560D1025UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012569
REPORT IS A COMBINATION OF REPORTS P993346 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1025UB35-4F0-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

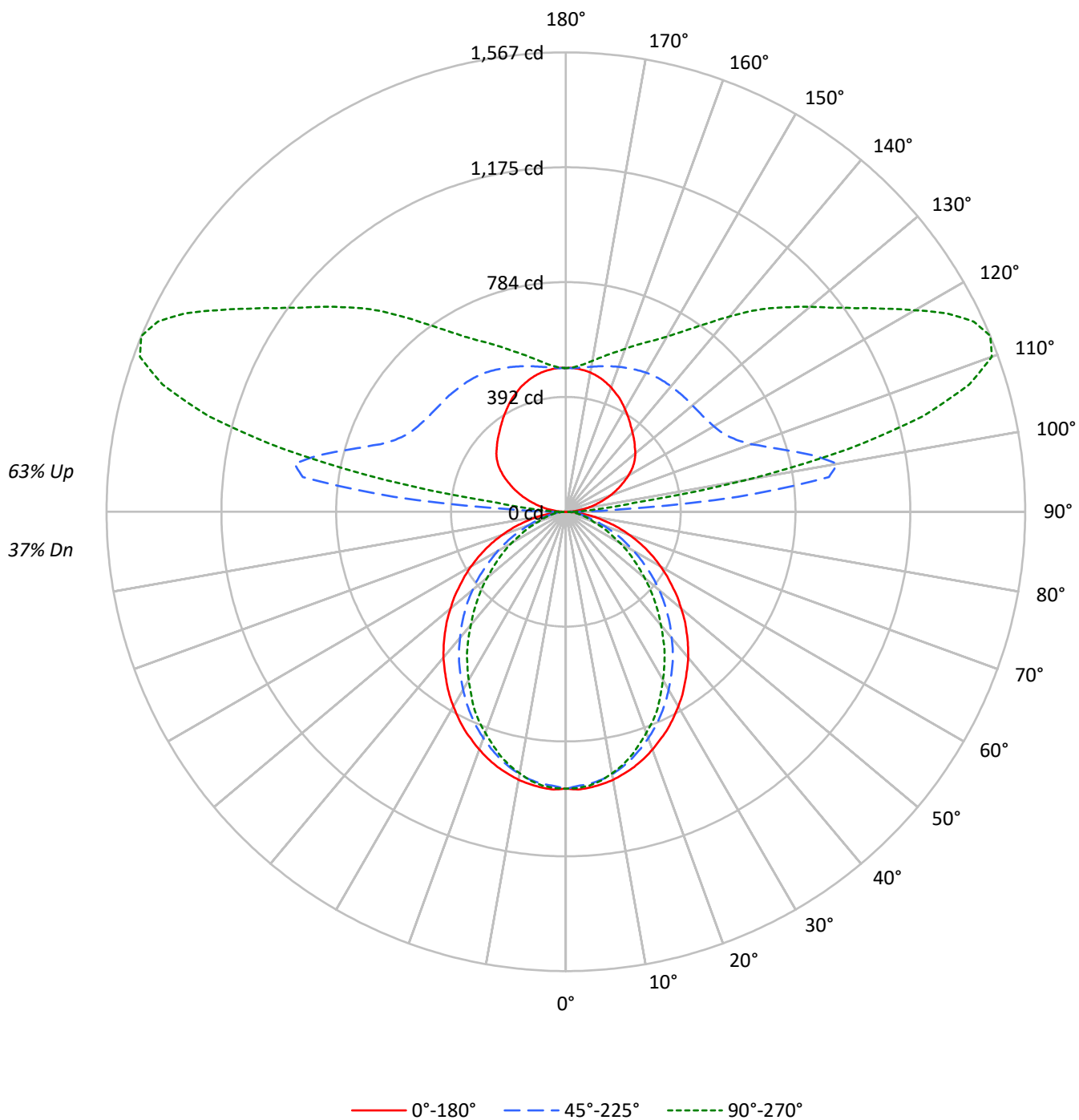
Lumens per Lamp: N/A
Luminaire Lumens: 5833.6 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44
1	95	91	87	84	86	83	79	77	67	65	63	52	51	50	39	38	37
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	27
4	72	62	55	49	65	57	50	45	46	42	38	37	33	31	28	26	24
5	67	55	48	42	60	51	44	39	41	36	33	33	29	27	25	23	21
6	61	50	42	36	55	45	39	34	37	32	28	30	26	23	23	20	18
7	57	45	37	32	51	41	34	29	34	29	25	27	23	21	21	18	16
8	53	41	33	28	48	37	31	26	31	26	22	25	21	18	19	17	15
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	13
10	46	34	27	22	41	31	25	21	26	21	18	21	18	15	16	14	12

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	1.5
10°-20°	247.0	4.2
20°-30°	355.7	6.1
30°-40°	400.5	6.9
40°-50°	383.1	6.6
50°-60°	313.6	5.4
60°-70°	211.5	3.6
70°-80°	106.1	1.8
80°-90°	30.5	0.5
90°-100°	278.6	4.8
100°-110°	778.8	13.4
110°-120°	759.4	13.0
120°-130°	604.7	10.4
130°-140°	477.3	8.2
140°-150°	356.1	6.1
150°-160°	248.4	4.3
160°-170°	145.9	2.5
170°-180°	47.5	0.8
0°-30°	691.5	11.9
0°-40°	1092.0	18.7
0°-60°	1788.8	30.7
0°-90°	2136.7	36.6
90°-120°	1816.8	31.1
90°-150°	3255.0	55.8
90°-180°	3697.0	63.4
0°-180°	5833.6	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°	2	12	25	28	29	5
95°	34	110	589	172	115	36
105°	115	170	798	1396	1262	122
115°	204	254	610	1338	1536	201
125°	283	334	570	1032	1211	251
135°	332	396	562	850	982	256
145°	378	433	555	697	767	237
155°	430	464	537	610	636	198
165°	470	483	514	545	555	132
175°	489	490	493	500	499	46
180°	490	490	490	490	490	

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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°	2.0	11.9	24.8	27.8	28.8
92.5°	14.9	59.6	184.6	63.0	52.6
95°	33.7	109.6	588.6	171.7	115.1
97.5°	53.6	125.6	905.2	431.8	236.2
100°	73.4	138.4	940.0	903.2	622.3
102.5°	94.3	153.4	875.4	1209.4	985.6
105°	115.1	170.2	798.0	1395.5	1262.5
107.5°	137.0	190.1	729.5	1477.4	1443.2
110°	160.8	210.4	673.0	1480.0	1546.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.6	231.8	635.2	1423.8	1567.3
115°	203.5	253.6	610.4	1338.5	1535.5
117.5°	224.3	274.4	593.6	1247.2	1466.0
120°	246.2	295.3	582.6	1160.8	1374.7
122.5°	265.0	315.1	575.7	1092.8	1289.3
125°	282.9	334.0	569.7	1032.3	1210.9
127.5°	296.8	351.9	566.8	982.6	1143.4
130°	309.7	367.7	563.8	937.0	1087.8
132.5°	319.6	382.1	562.8	894.3	1033.3
135°	331.5	395.5	561.8	850.1	981.6
137.5°	342.4	406.4	559.8	808.4	927.1
140°	353.4	416.4	558.8	767.8	869.5
142.5°	365.3	425.3	556.8	730.6	815.9
145°	378.2	433.2	554.8	697.3	767.3
147.5°	391.1	441.7	551.9	671.4	725.6
150°	404.0	448.6	547.9	648.7	689.8
152.5°	416.9	456.0	542.9	628.8	660.1
155°	429.8	463.6	537.0	610.4	636.2
157.5°	439.7	470.0	532.0	592.6	613.4
160°	451.6	475.4	526.1	576.2	591.6
162.5°	460.5	479.4	520.1	560.8	571.7
165°	469.5	482.9	514.1	545.4	554.8
167.5°	476.4	485.8	508.2	532.0	538.0
170°	482.4	487.4	502.2	520.1	523.1
172.5°	486.4	488.8	497.3	509.7	509.2
175°	489.3	489.8	493.3	500.3	499.3
177.5°	491.3	490.3	490.3	494.3	492.3
180°	490.3	490.3	490.3	490.3	490.3

(END OF REPORT)