

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: P1010954

Luminaire Tested: S123RDIP-B560D585UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010954
REPORT IS A COMBINATION OF REPORTS P993450 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D585UB2750-4F0-XX-W2A-F_2700K
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

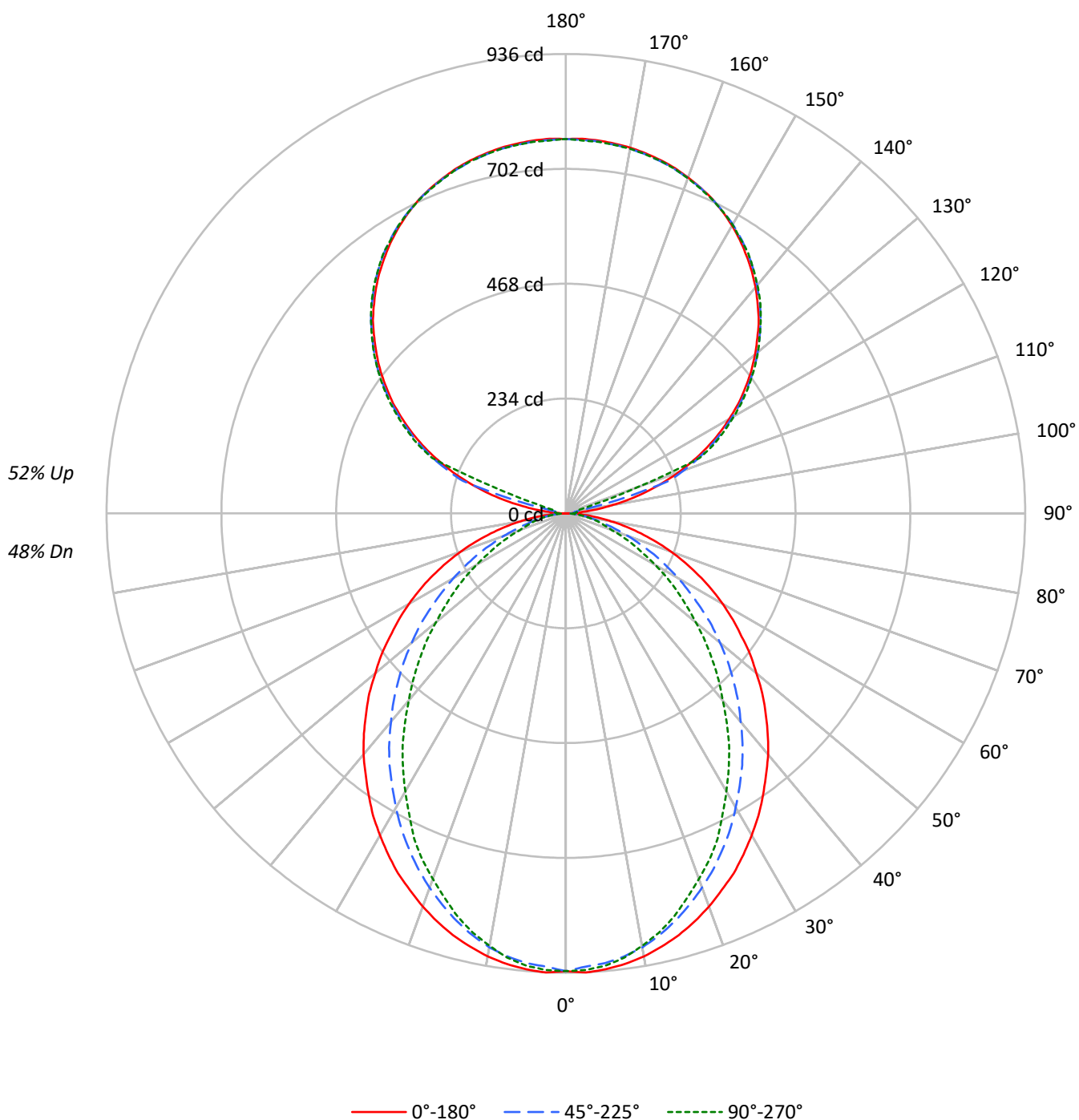
Lumens per Lamp: N/A
Luminaire Lumens: 4434.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 39.4
Input Voltage (V): 120
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	39
3	81	72	65	59	75	67	61	56	56	52	48	47	44	41	38	36	34
4	75	64	56	50	68	59	53	47	50	45	41	42	38	35	34	32	29
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20
8	54	42	35	29	50	39	33	28	34	28	25	29	24	21	24	21	18
9	51	39	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17
10	47	35	28	24	44	33	27	22	29	23	20	24	20	17	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10038	10038	10038
5°	10055	9684	9658
10°	9977	9319	9136
15°	9846	8869	8564
20°	9677	8380	7926
25°	9501	7871	7321
30°	9277	7330	6607
35°	9045	6799	5956
40°	8827	6221	5236
45°	8548	5657	4590
50°	8241	5055	3920
55°	7922	4409	3306
60°	7616	3748	2683
65°	7223	3070	2095
70°	6726	2320	1496
75°	6014	1572	1186
80°	5130	1093	833
85°	3852	590	437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8548 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	2.0
10°-20°	243.9	5.5
20°-30°	351.2	7.9
30°-40°	395.5	8.9
40°-50°	378.3	8.5
50°-60°	309.7	7.0
60°-70°	208.8	4.7
70°-80°	104.7	2.4
80°-90°	28.9	0.7
90°-100°	26.9	0.6
100°-110°	130.1	2.9
110°-120°	318.7	7.2
120°-130°	404.6	9.1
130°-140°	432.2	9.7
140°-150°	404.2	9.1
150°-160°	326.0	7.4
160°-170°	210.4	4.7
170°-180°	72.5	1.6
0°-30°	682.7	15.4
0°-40°	1078.2	24.3
0°-60°	1766.1	39.8
0°-90°	2108.5	47.6
90°-120°	475.6	10.7
90°-150°	1716.6	38.7
90°-180°	2325.0	52.4
0°-180°	4434.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	933	929	920	927	925	88
15°	890	881	860	856	851	251
25°	809	790	756	740	731	372
35°	700	673	626	594	580	438
45°	576	542	483	440	422	444
55°	437	400	336	292	277	392
65°	299	257	198	161	153	296
75°	158	122	80	73	71	168
85°	40	23	21	20	20	44
90°	1	6	14	16	17	4
95°	35	11	18	22	22	41
105°	169	175	124	24	25	179
115°	317	320	325	331	333	313
125°	447	451	453	454	456	399
135°	556	559	562	563	562	428
145°	642	646	647	648	648	402
155°	707	706	706	709	706	326
165°	745	744	743	748	744	211
175°	763	760	760	764	760	73
180°	763	763	763	763	763	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.6	932.6	932.6	932.6	932.6
2.5°	936.4	933.4	924.3	932.6	931.1
5°	932.6	928.9	919.8	926.6	925.1
7.5°	925.8	922.1	910.7	915.2	913.0
10°	916.8	911.5	897.8	898.6	894.8
12.5°	903.9	897.8	880.4	879.7	875.2
15°	889.5	881.2	860.0	856.2	850.9
17.5°	872.1	863.1	836.6	829.0	821.4
20°	852.5	840.4	811.6	801.8	792.7
22.5°	830.5	816.2	785.1	772.3	764.0
25°	809.3	790.4	755.6	739.8	731.4
27.5°	783.6	763.2	725.4	704.2	691.3
30°	757.2	734.5	692.1	666.4	654.3
32.5°	730.7	704.2	658.8	630.1	617.2
35°	700.4	673.2	626.3	593.8	580.2
37.5°	670.2	640.7	591.5	555.2	538.6
40°	641.4	608.1	554.4	515.1	497.7
42.5°	608.9	575.6	519.6	475.8	460.6
45°	575.6	541.6	483.3	440.2	422.1
47.5°	543.1	505.3	447.8	400.9	385.0
50°	506.8	471.2	410.0	363.1	345.7
52.5°	474.3	434.9	374.4	325.3	310.1
55°	437.2	400.1	335.8	292.0	276.8
57.5°	403.9	363.8	298.8	257.2	244.3
60°	369.1	327.5	264.7	223.9	211.0
62.5°	334.3	292.7	229.9	192.1	178.5
65°	298.8	257.2	198.2	161.1	152.8
67.5°	263.2	220.9	163.4	135.4	126.3
70°	228.4	187.6	134.6	108.2	99.8
72.5°	193.6	153.5	106.7	86.2	84.0
75°	158.1	121.8	80.2	72.6	71.1
77.5°	125.6	92.3	62.8	58.2	56.7
80°	94.5	63.5	47.7	45.4	43.9
82.5°	65.1	39.3	34.0	31.8	31.8
85°	40.1	23.4	21.2	19.7	19.7
87.5°	18.2	9.8	9.8	9.1	8.3
90°	0.6	6.2	13.6	15.9	17.0
92.5°	13.0	9.6	14.7	18.7	19.3
95°	34.6	11.3	17.6	21.5	21.5
97.5°	62.9	47.0	18.1	22.7	23.2
100°	95.8	107.1	18.7	23.2	23.8
102.5°	133.2	140.5	41.9	23.2	24.4
105°	168.9	175.1	124.1	23.8	24.9
107.5°	206.9	212.0	220.5	133.2	58.9
110°	244.8	249.4	255.6	236.9	155.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.1	285.1	291.3	296.4	295.3
115°	316.8	320.2	325.3	331.0	333.2
117.5°	351.9	355.9	358.7	363.3	363.8
120°	384.2	389.3	391.0	395.6	395.6
122.5°	417.1	421.1	423.3	426.2	426.7
125°	446.6	451.1	453.4	454.5	455.6
127.5°	476.0	480.6	483.4	485.1	484.0
130°	503.2	507.8	510.0	512.3	511.2
132.5°	529.3	533.9	535.6	537.8	536.1
135°	556.0	559.4	561.6	563.3	561.6
137.5°	578.6	583.2	584.3	587.1	586.0
140°	601.3	604.7	606.4	608.7	607.5
142.5°	622.3	625.7	627.4	629.1	627.4
145°	641.5	645.5	646.6	647.8	647.8
147.5°	660.2	663.1	664.2	665.3	662.5
150°	677.2	678.9	680.1	681.2	679.5
152.5°	692.5	693.1	693.7	695.9	693.1
155°	706.7	705.6	706.1	709.0	705.6
157.5°	718.0	718.0	717.5	720.9	716.3
160°	728.2	727.7	727.1	730.5	726.5
162.5°	737.9	736.2	735.6	739.6	736.2
165°	745.2	743.5	743.0	747.5	743.5
167.5°	751.5	749.2	749.2	753.7	749.2
170°	756.6	754.3	754.3	758.8	754.3
172.5°	760.0	757.1	757.7	762.2	757.1
175°	762.8	760.0	760.5	764.5	760.0
177.5°	763.9	761.1	761.7	766.2	760.5
180°	762.8	762.8	762.8	762.8	762.8

(END OF REPORT)