

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: P1012611

Luminaire Tested: S123RDIP-B560D1195UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012611
REPORT IS A COMBINATION OF REPORTS P993398 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1195UB50-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

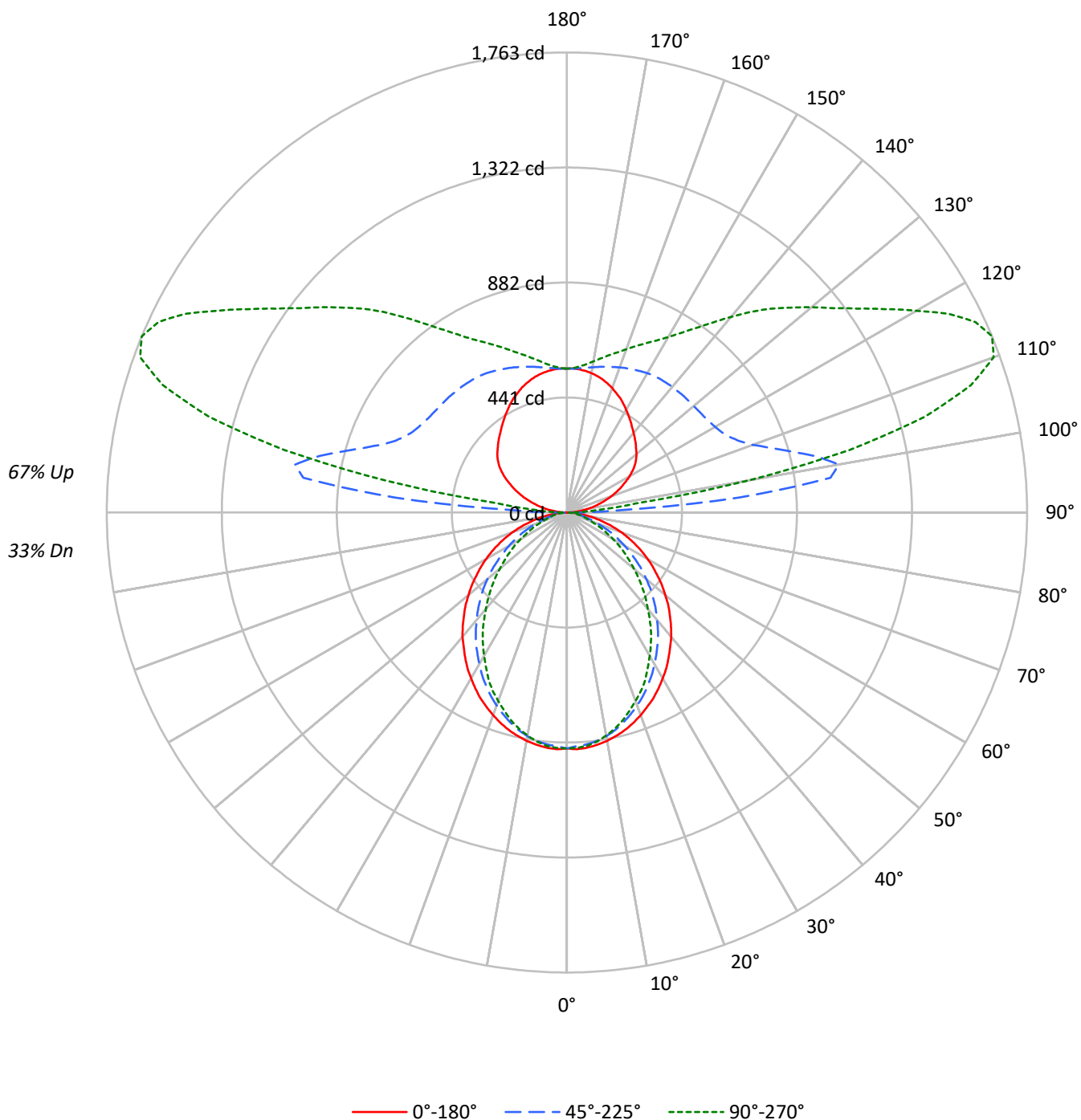
Lumens per Lamp: N/A
Luminaire Lumens: 6204.6 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	0			
RCR																								
0	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	40	40	40	33			
1	94	90	86	83	85	81	78	75	65	63	61	50	49	47	36	35	35	35	35	35	28			
2	86	79	73	68	77	71	66	62	57	54	51	44	42	40	32	31	29	29	29	29	24			
3	78	69	62	57	70	63	57	52	51	46	43	39	36	34	29	27	25	25	25	25	21			
4	72	61	54	48	64	56	49	44	45	40	37	35	32	29	26	24	22	22	22	22	18			
5	66	55	47	41	59	50	43	38	40	35	32	31	28	25	23	21	19	19	19	19	16			
6	61	49	41	36	55	45	38	33	36	31	28	28	25	22	21	19	17	17	17	17	14			
7	56	44	37	31	50	40	34	29	33	28	24	26	22	20	19	17	15	15	15	15	12			
8	52	40	33	28	47	37	30	25	30	25	21	24	20	17	18	15	14	14	14	14	11			
9	48	37	29	24	44	33	27	23	27	23	19	22	18	16	16	14	12	12	12	12	10			
10	45	33	26	22	41	31	24	20	25	20	17	20	17	14	15	13	11	11	11	11	9			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9734	9734	9734
5°	9750	9389	9364
10°	9673	9037	8858
15°	9547	8600	8305
20°	9383	8126	7685
25°	9213	7632	7099
30°	8996	7108	6406
35°	8771	6593	5774
40°	8559	6033	5077
45°	8288	5486	4450
50°	7991	4901	3801
55°	7681	4275	3206
60°	7385	3634	2602
65°	7003	2977	2032
70°	6523	2250	1451
75°	5831	1523	1149
80°	4978	1059	806
85°	3737	571	423

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8288 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.0	1.4
10°-20°	236.5	3.8
20°-30°	340.5	5.5
30°-40°	383.4	6.2
40°-50°	366.8	5.9
50°-60°	300.2	4.8
60°-70°	202.4	3.3
70°-80°	101.5	1.6
80°-90°	29.6	0.5
90°-100°	313.4	5.1
100°-110°	876.1	14.1
110°-120°	854.3	13.8
120°-130°	680.2	11.0
130°-140°	536.9	8.7
140°-150°	400.6	6.5
150°-160°	279.5	4.5
160°-170°	164.2	2.6
170°-180°	53.4	0.9
0°-30°	662.0	10.7
0°-40°	1045.4	16.8
0°-60°	1712.5	27.6
0°-90°	2046.1	33.0
90°-120°	2043.8	32.9
90°-150°	3661.5	59.0
90°-180°	4159.0	67.0
0°-180°	6204.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	904	904	904	904	904	
5°	904	901	892	898	897	86
15°	862	854	834	830	825	243
25°	785	766	733	717	709	361
35°	679	653	607	576	562	425
45°	558	525	469	427	409	431
55°	424	388	326	283	268	380
65°	290	249	192	156	148	287
75°	153	118	78	70	69	163
85°	39	23	20	19	19	43
90°	2	13	28	31	32	5
95°	38	123	662	193	130	40
105°	130	192	898	1570	1420	138
115°	229	285	687	1506	1727	227
125°	318	376	641	1161	1362	283
135°	373	445	632	956	1104	288
145°	425	487	624	784	863	267
155°	484	521	604	687	716	222
165°	528	543	578	614	624	149
175°	550	551	555	563	562	52
180°	552	552	552	552	552	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	904.3	904.3	904.3	904.3	904.3
2.5°	908.0	905.0	896.2	904.3	902.8
5°	904.3	900.6	891.8	898.4	897.0
7.5°	897.7	894.0	883.0	887.4	885.2
10°	888.9	883.8	870.6	871.3	867.6
12.5°	876.4	870.6	853.7	853.0	848.6
15°	862.5	854.4	833.9	830.2	825.1
17.5°	845.6	836.8	811.2	803.8	796.5
20°	826.6	814.8	787.0	777.4	768.6
22.5°	805.3	791.4	761.3	748.8	740.8
25°	784.8	766.4	732.7	717.3	709.2
27.5°	759.8	740.0	703.4	682.8	670.3
30°	734.2	712.2	671.1	646.1	634.4
32.5°	708.5	682.8	638.8	610.9	598.5
35°	679.2	652.7	607.3	575.7	562.5
37.5°	649.8	621.2	573.5	538.3	522.2
40°	621.9	589.7	537.6	499.5	482.6
42.5°	590.4	558.1	503.9	461.3	446.7
45°	558.1	525.1	468.7	426.9	409.3
47.5°	526.6	489.9	434.2	388.7	373.3
50°	491.4	456.9	397.5	352.0	335.2
52.5°	459.9	421.7	363.0	315.4	300.7
55°	423.9	388.0	325.6	283.1	268.4
57.5°	391.6	352.8	289.7	249.4	236.9
60°	357.9	317.6	256.7	217.1	204.6
62.5°	324.2	283.8	223.0	186.3	173.1
65°	289.7	249.4	192.2	156.2	148.2
67.5°	255.2	214.2	158.4	131.3	122.5
70°	221.5	181.9	130.5	104.9	96.8
72.5°	187.8	148.9	103.4	83.6	81.4
75°	153.3	118.1	77.7	70.4	68.9
77.5°	121.7	89.5	60.9	56.5	55.0
80°	91.7	61.6	46.2	44.0	42.5
82.5°	63.1	38.1	33.0	30.8	30.8
85°	38.9	22.7	20.5	19.1	19.1
87.5°	17.6	9.5	9.5	8.8	8.1
90°	2.2	13.4	27.9	31.2	32.4
92.5°	16.7	67.0	207.7	70.9	59.2
95°	38.0	123.4	662.1	193.2	129.5
97.5°	60.3	141.2	1018.3	485.6	265.7
100°	82.6	155.8	1057.4	1016.0	700.1
102.5°	106.1	172.5	984.8	1360.5	1108.7
105°	129.5	191.5	897.7	1569.8	1420.2
107.5°	154.1	213.8	820.7	1662.0	1623.4
110°	180.9	236.7	757.0	1664.8	1739.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.4	260.7	714.6	1601.6	1763.0
115°	228.9	285.2	686.7	1505.6	1727.3
117.5°	252.3	308.8	667.7	1402.9	1649.1
120°	276.9	332.2	655.4	1305.8	1546.4
122.5°	298.1	354.5	647.6	1229.3	1450.4
125°	318.2	375.7	640.9	1161.2	1362.2
127.5°	333.8	395.8	637.5	1105.4	1286.2
130°	348.4	413.6	634.2	1054.0	1223.7
132.5°	359.5	429.9	633.1	1006.0	1162.3
135°	372.9	445.0	632.0	956.3	1104.3
137.5°	385.2	457.2	629.7	909.4	1042.8
140°	397.5	468.4	628.6	863.6	978.1
142.5°	410.9	478.4	626.4	821.8	917.8
145°	425.4	487.4	624.1	784.4	863.1
147.5°	439.9	496.8	620.8	755.4	816.2
150°	454.4	504.6	616.3	729.6	776.0
152.5°	468.9	513.0	610.7	707.3	742.5
155°	483.5	521.4	604.0	686.7	715.7
157.5°	494.6	528.6	598.5	666.6	690.0
160°	508.0	534.8	591.8	648.2	665.5
162.5°	518.1	539.3	585.1	630.8	643.1
165°	528.1	543.2	578.4	613.5	624.1
167.5°	535.9	546.6	571.7	598.4	605.2
170°	542.6	548.2	565.0	585.0	588.4
172.5°	547.1	549.9	559.4	573.3	572.8
175°	550.5	551.0	554.9	562.7	561.6
177.5°	552.7	551.6	551.6	556.0	553.8
180°	551.6	551.6	551.6	551.6	551.6

(END OF REPORT)