

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: P1012605

Luminaire Tested: S123RDIP-B560D1195UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012605
REPORT IS A COMBINATION OF REPORTS P993392 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B560D1195UB40-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

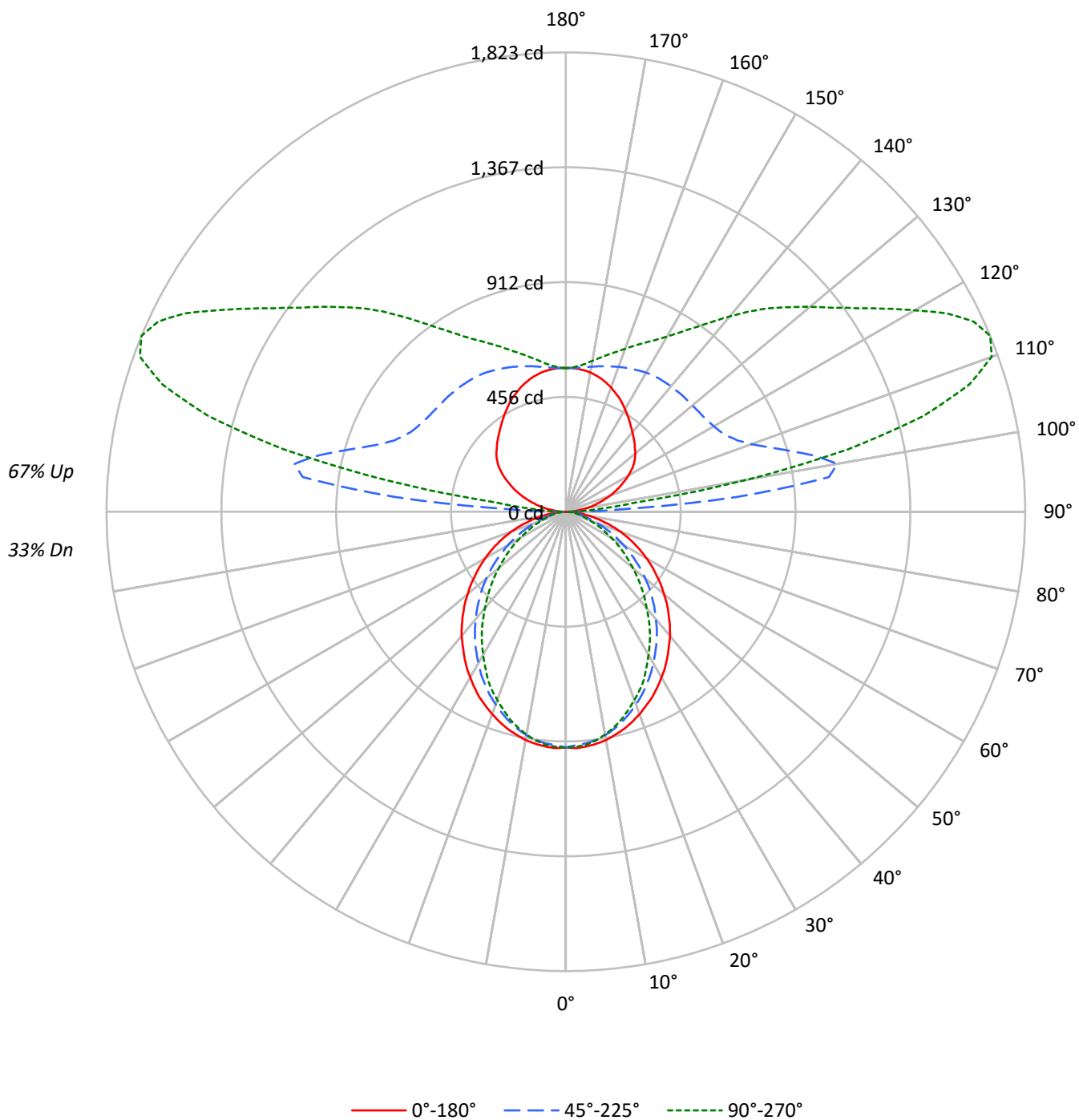
Lumens per Lamp: N/A
Luminaire Lumens: 6416.0 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10067	10067	10067
5°	10084	9711	9685
10°	10005	9346	9162
15°	9875	8895	8589
20°	9704	8404	7949
25°	9529	7894	7342
30°	9303	7352	6625
35°	9071	6819	5972
40°	8853	6239	5251
45°	8574	5673	4603
50°	8264	5069	3932
55°	7944	4422	3316
60°	7639	3759	2691
65°	7242	3077	2100
70°	6747	2327	1501
75°	6029	1576	1190
80°	5147	1096	834
85°	3861	590	437

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8574 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	1.4
10°-20°	244.6	3.8
20°-30°	352.2	5.5
30°-40°	396.6	6.2
40°-50°	379.4	5.9
50°-60°	310.5	4.8
60°-70°	209.4	3.3
70°-80°	105.0	1.6
80°-90°	30.6	0.5
90°-100°	324.1	5.1
100°-110°	905.8	14.1
110°-120°	883.3	13.8
120°-130°	703.3	11.0
130°-140°	555.2	8.7
140°-150°	414.2	6.5
150°-160°	289.0	4.5
160°-170°	169.8	2.6
170°-180°	55.2	0.9
0°-30°	684.7	10.7
0°-40°	1081.3	16.9
0°-60°	1771.2	27.6
0°-90°	2116.2	33.0
90°-120°	2113.2	32.9
90°-150°	3785.9	59.0
90°-180°	4300.0	67.0
0°-180°	6416.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	935	935	935	935	935	
5°	935	932	922	929	928	89
15°	892	884	862	859	853	251
25°	812	793	758	742	734	373
35°	702	675	628	596	582	440
45°	577	543	485	442	423	445
55°	438	401	337	293	278	393
65°	300	258	199	162	153	297
75°	158	122	80	73	71	169
85°	40	24	21	20	20	44
90°	2	14	29	32	34	5
95°	39	128	685	200	134	42
105°	134	198	928	1623	1468	142
115°	237	295	710	1557	1786	234
125°	329	388	663	1201	1408	292
135°	386	460	653	989	1142	298
145°	440	504	645	811	892	276
155°	500	539	625	710	740	230
165°	546	562	598	634	645	154
175°	569	570	574	582	581	54
180°	570	570	570	570	570	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	935.3	935.3	935.3	935.3	935.3
2.5°	939.1	936.1	927.0	935.3	933.8
5°	935.3	931.5	922.4	929.2	927.7
7.5°	928.5	924.7	913.3	917.8	915.6
10°	919.4	914.1	900.4	901.2	897.4
12.5°	906.5	900.4	883.0	882.2	877.6
15°	892.1	883.7	862.5	858.7	853.4
17.5°	874.6	865.5	839.0	831.4	823.8
20°	854.9	842.8	813.9	804.1	795.0
22.5°	832.9	818.5	787.4	774.5	766.1
25°	811.7	792.7	757.8	741.9	733.5
27.5°	785.9	765.4	727.5	706.2	693.3
30°	759.3	736.6	694.1	668.3	656.1
32.5°	732.8	706.2	660.7	631.9	619.0
35°	702.4	675.1	628.1	595.5	581.8
37.5°	672.1	642.5	593.2	556.8	540.1
40°	643.3	609.9	556.0	516.6	499.1
42.5°	610.6	577.3	521.1	477.1	462.0
45°	577.3	543.1	484.7	441.5	423.3
47.5°	544.6	506.7	449.1	402.0	386.1
50°	508.2	472.6	411.1	364.1	346.7
52.5°	475.6	436.2	375.5	326.2	311.0
55°	438.4	401.3	336.8	292.8	277.6
57.5°	405.1	364.9	299.6	257.9	245.0
60°	370.2	328.5	265.5	224.5	211.6
62.5°	335.3	293.6	230.6	192.7	179.0
65°	299.6	257.9	198.7	161.6	153.2
67.5°	264.0	221.5	163.8	135.8	126.7
70°	229.1	188.1	135.0	108.5	100.1
72.5°	194.2	154.0	107.0	86.5	84.2
75°	158.5	122.1	80.4	72.8	71.3
77.5°	125.9	92.5	63.0	58.4	56.9
80°	94.8	63.7	47.8	45.5	44.0
82.5°	65.2	39.4	34.1	31.9	31.9
85°	40.2	23.5	21.2	19.7	19.7
87.5°	18.2	9.9	9.9	9.1	8.3
90°	2.3	13.8	28.9	32.4	33.5
92.5°	17.3	69.3	214.7	73.3	61.2
95°	39.3	127.6	684.6	199.7	133.9
97.5°	62.3	146.0	1052.9	502.2	274.8
100°	85.4	161.0	1093.3	1050.6	723.8
102.5°	109.7	178.4	1018.2	1406.7	1146.4
105°	133.9	198.0	928.2	1623.2	1468.5
107.5°	159.3	221.0	848.5	1718.4	1678.6
110°	187.0	244.8	782.7	1721.3	1798.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.4	269.6	738.8	1656.0	1822.9
115°	236.7	295.0	710.0	1556.8	1785.9
117.5°	260.9	319.2	690.4	1450.6	1705.1
120°	286.3	343.4	677.7	1350.1	1598.9
122.5°	308.2	366.6	669.6	1271.1	1499.6
125°	329.0	388.5	662.7	1200.6	1408.4
127.5°	345.2	409.2	659.2	1142.9	1329.9
130°	360.2	427.7	655.7	1089.8	1265.3
132.5°	371.7	444.5	654.6	1040.2	1201.8
135°	385.6	460.0	653.4	988.8	1141.8
137.5°	398.3	472.8	651.1	940.3	1078.3
140°	411.0	484.3	650.0	893.0	1011.3
142.5°	424.8	494.7	647.6	849.7	949.0
145°	439.8	503.9	645.3	811.0	892.4
147.5°	454.9	513.8	641.9	781.0	843.9
150°	469.9	521.8	637.3	754.4	802.3
152.5°	484.9	530.5	631.5	731.4	767.7
155°	499.9	539.1	624.6	710.0	740.0
157.5°	511.4	546.6	618.8	689.2	713.5
160°	525.3	553.0	611.9	670.2	688.1
162.5°	535.7	557.6	604.9	652.2	665.0
165°	546.1	561.7	598.0	634.4	645.3
167.5°	554.1	565.1	591.1	618.8	625.7
170°	561.1	566.8	584.2	605.0	608.4
172.5°	565.7	568.6	578.4	592.8	592.2
175°	569.1	569.7	573.8	581.8	580.7
177.5°	571.5	570.3	570.3	574.9	572.6
180°	570.3	570.3	570.3	570.3	570.3

(END OF REPORT)