

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: P1012535

Luminaire Tested: S123RDIP-B340D805UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012535
REPORT IS A COMBINATION OF REPORTS P993300 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D805UB30-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

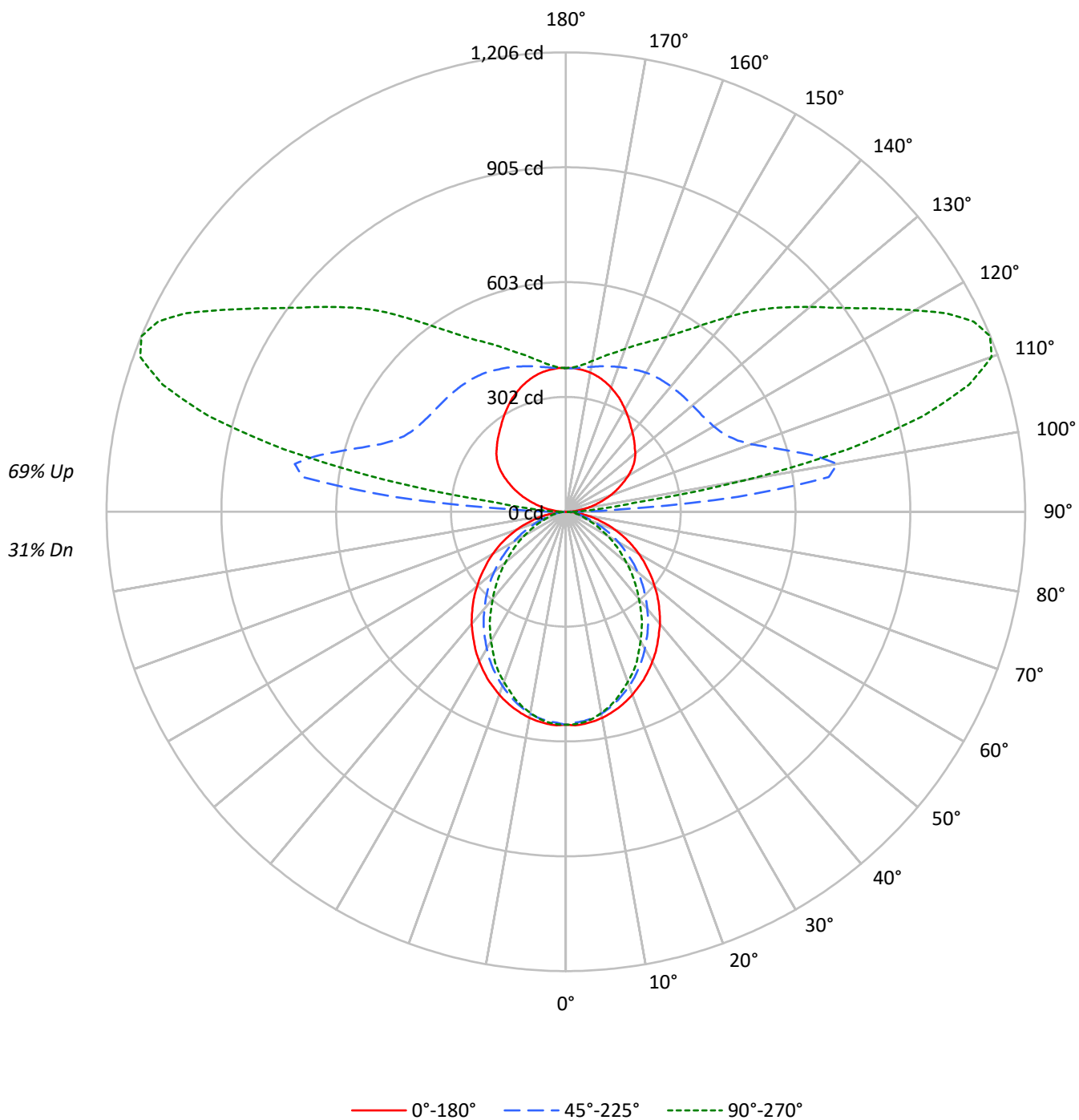
Lumens per Lamp: N/A
Luminaire Lumens: 4108.6 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	92	92	92	92	73	73	73	55	55	55	38	38	38
1	94	90	86	83	84	81	78	75	64	62	60	48	47	46	34	34	33
2	85	78	73	68	77	71	66	62	56	53	50	43	41	39	30	29	28
3	78	69	62	56	70	62	56	52	50	45	42	38	35	33	27	25	24
4	71	61	54	48	64	55	49	44	44	40	36	34	31	28	24	22	21
5	65	54	47	41	59	49	43	38	39	35	31	30	27	24	22	20	18
6	60	49	41	35	54	44	37	33	36	31	27	27	24	21	20	18	16
7	56	44	36	31	50	40	33	29	32	27	24	25	22	19	18	16	14
8	52	40	32	27	46	36	30	25	29	24	21	23	19	17	17	15	13
9	48	36	29	24	43	33	27	22	27	22	19	21	18	15	15	13	12
10	45	33	26	22	40	30	24	20	25	20	17	19	16	14	14	12	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6018	6018	6018
5°	6028	5804	5789
10°	5980	5586	5477
15°	5902	5316	5134
20°	5801	5023	4752
25°	5695	4719	4388
30°	5561	4394	3960
35°	5423	4075	3570
40°	5292	3729	3138
45°	5124	3391	2751
50°	4940	3029	2350
55°	4749	2643	1981
60°	4566	2247	1609
65°	4329	1840	1256
70°	4032	1391	897
75°	3606	943	711
80°	3078	656	499
85°	2305	354	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.6	1.3
10°-20°	146.2	3.6
20°-30°	210.5	5.1
30°-40°	237.1	5.8
40°-50°	226.7	5.5
50°-60°	185.6	4.5
60°-70°	125.1	3.0
70°-80°	62.8	1.5
80°-90°	18.5	0.5
90°-100°	214.3	5.2
100°-110°	599.0	14.6
110°-120°	584.1	14.2
120°-130°	465.1	11.3
130°-140°	367.1	8.9
140°-150°	273.9	6.7
150°-160°	191.1	4.7
160°-170°	112.3	2.7
170°-180°	36.5	0.9
0°-30°	409.2	10.0
0°-40°	646.3	15.7
0°-60°	1058.7	25.8
0°-90°	1265.1	30.8
90°-120°	1397.5	34.0
90°-150°	2503.6	60.9
90°-180°	2844.0	69.2
0°-180°	4108.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	559	559	559	559	559	
5°	559	557	551	555	554	53
15°	533	528	516	513	510	150
25°	485	474	453	443	438	223
35°	420	404	375	356	348	263
45°	345	325	290	264	253	266
55°	262	240	201	175	166	235
65°	179	154	119	97	92	177
75°	95	73	48	44	43	101
85°	24	14	13	12	12	26
90°	2	9	19	21	22	3
95°	26	84	453	132	89	28
105°	89	131	614	1073	971	94
115°	156	195	470	1030	1181	155
125°	218	257	438	794	931	193
135°	255	304	432	654	755	197
145°	291	333	427	536	590	182
155°	331	356	413	470	489	152
165°	361	371	396	420	427	102
175°	376	377	379	385	384	36
180°	377	377	377	377	377	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	559.1	559.1	559.1	559.1	559.1
2.5°	561.3	559.5	554.1	559.1	558.1
5°	559.1	556.8	551.3	555.4	554.5
7.5°	555.0	552.7	545.9	548.6	547.3
10°	549.5	546.4	538.2	538.6	536.4
12.5°	541.8	538.2	527.8	527.3	524.6
15°	533.2	528.2	515.5	513.3	510.1
17.5°	522.8	517.3	501.5	496.9	492.4
20°	511.0	503.7	486.5	480.6	475.2
22.5°	497.8	489.2	470.6	462.9	457.9
25°	485.1	473.8	453.0	443.4	438.4
27.5°	469.7	457.5	434.8	422.1	414.4
30°	453.9	440.3	414.9	399.5	392.2
32.5°	438.0	422.1	394.9	377.7	370.0
35°	419.9	403.5	375.4	355.9	347.8
37.5°	401.7	384.0	354.6	332.8	322.8
40°	384.5	364.5	332.3	308.8	298.3
42.5°	365.0	345.0	311.5	285.2	276.1
45°	345.0	324.6	289.7	263.9	253.0
47.5°	325.5	302.9	268.4	240.3	230.8
50°	303.8	282.5	245.7	217.6	207.2
52.5°	284.3	260.7	224.4	195.0	185.9
55°	262.1	239.9	201.3	175.0	165.9
57.5°	242.1	218.1	179.1	154.2	146.5
60°	221.3	196.3	158.7	134.2	126.5
62.5°	200.4	175.5	137.8	115.2	107.0
65°	179.1	154.2	118.8	96.6	91.6
67.5°	157.8	132.4	97.9	81.2	75.7
70°	136.9	112.4	80.7	64.8	59.8
72.5°	116.1	92.0	63.9	51.7	50.3
75°	94.8	73.0	48.1	43.5	42.6
77.5°	75.3	55.3	37.6	34.9	34.0
80°	56.7	38.1	28.6	27.2	26.3
82.5°	39.0	23.6	20.4	19.0	19.0
85°	24.0	14.1	12.7	11.8	11.8
87.5°	10.9	5.9	5.9	5.4	5.0
90°	1.5	9.2	19.1	21.4	22.1
92.5°	11.5	45.8	142.0	48.5	40.5
95°	26.0	84.4	452.7	132.0	88.6
97.5°	41.2	96.6	696.3	332.1	181.7
100°	56.5	106.5	723.0	694.7	478.7
102.5°	72.5	118.0	673.4	930.3	758.1
105°	88.6	131.0	613.8	1073.4	971.1
107.5°	105.4	146.2	561.1	1136.4	1110.1
110°	123.7	161.8	517.6	1138.3	1189.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	140.5	178.3	488.6	1095.2	1205.5
115°	156.5	195.1	469.5	1029.5	1181.1
117.5°	172.5	211.1	456.5	959.2	1127.6
120°	189.3	227.2	448.1	892.8	1057.4
122.5°	203.8	242.4	442.8	840.6	991.7
125°	217.6	256.9	438.2	794.0	931.4
127.5°	228.3	270.6	435.9	755.8	879.5
130°	238.2	282.9	433.6	720.7	836.7
132.5°	245.8	294.0	432.9	687.8	794.7
135°	255.0	304.2	432.1	653.9	755.1
137.5°	263.4	312.6	430.6	621.8	713.1
140°	271.8	320.2	429.8	590.5	668.8
142.5°	280.9	327.2	428.3	561.9	627.6
145°	290.9	333.2	426.8	536.3	590.1
147.5°	300.8	339.8	424.5	516.5	558.1
150°	310.7	345.0	421.4	499.0	530.6
152.5°	320.6	350.8	417.6	483.6	507.7
155°	330.6	356.5	413.0	469.5	489.4
157.5°	338.2	361.5	409.2	455.8	471.8
160°	347.4	365.7	404.6	443.2	455.0
162.5°	354.2	368.8	400.0	431.4	439.7
165°	361.1	371.4	395.5	419.5	426.8
167.5°	366.5	373.7	390.9	409.2	413.8
170°	371.0	374.8	386.3	400.0	402.3
172.5°	374.1	376.0	382.5	392.0	391.6
175°	376.4	376.8	379.4	384.8	384.0
177.5°	377.9	377.1	377.1	380.2	378.7
180°	377.1	377.1	377.1	377.1	377.1

(END OF REPORT)