

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: P1012545

Luminaire Tested: S123RDIP-B340D805UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012545
REPORT IS A COMBINATION OF REPORTS P993312 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D805UB40-4F0-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

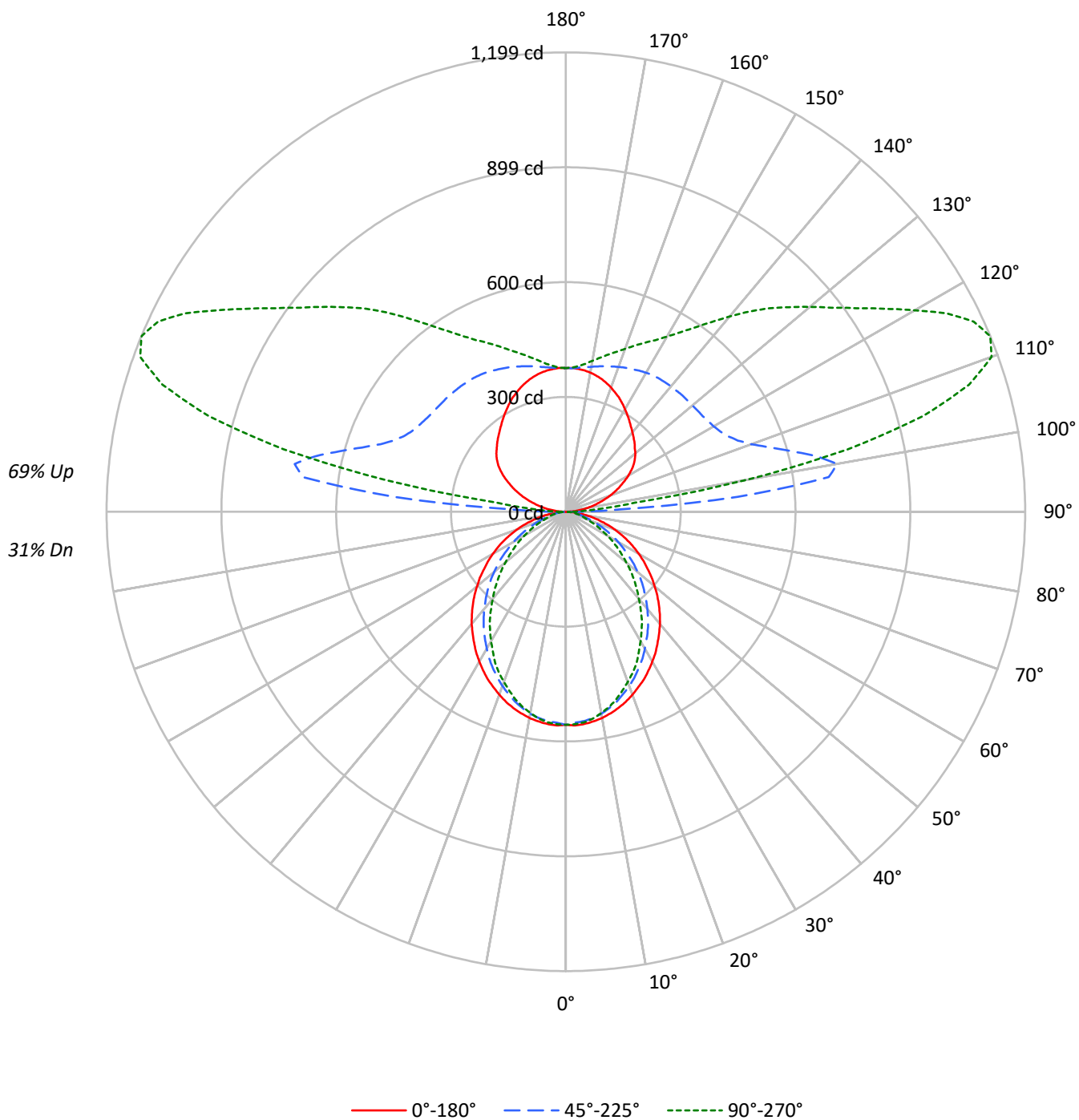
Lumens per Lamp: N/A
Luminaire Lumens: 4085.6 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	5985	5985	5985
5°	5994	5773	5756
10°	5947	5555	5446
15°	5870	5288	5106
20°	5769	4995	4725
25°	5664	4692	4364
30°	5529	4370	3938
35°	5392	4053	3550
40°	5263	3709	3121
45°	5095	3372	2736
50°	4913	3013	2337
55°	4722	2629	1971
60°	4540	2234	1600
65°	4305	1829	1249
70°	4011	1384	892
75°	3583	937	707
80°	3062	651	497
85°	2296	351	259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	1.3
10°-20°	145.4	3.6
20°-30°	209.3	5.1
30°-40°	235.7	5.8
40°-50°	225.5	5.5
50°-60°	184.6	4.5
60°-70°	124.4	3.0
70°-80°	62.4	1.5
80°-90°	18.4	0.5
90°-100°	213.1	5.2
100°-110°	595.7	14.6
110°-120°	580.8	14.2
120°-130°	462.5	11.3
130°-140°	365.1	8.9
140°-150°	272.4	6.7
150°-160°	190.0	4.7
160°-170°	111.6	2.7
170°-180°	36.3	0.9
0°-30°	407.0	10.0
0°-40°	642.7	15.7
0°-60°	1052.8	25.8
0°-90°	1258.1	30.8
90°-120°	1389.6	34.0
90°-150°	2489.6	60.9
90°-180°	2828.0	69.2
0°-180°	4085.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	556	554	548	552	551	53
15°	530	525	513	510	507	149
25°	482	471	450	441	436	222
35°	418	401	373	354	346	261
45°	343	323	288	262	252	265
55°	261	238	200	174	165	234
65°	178	153	118	96	91	176
75°	94	73	48	43	42	100
85°	24	14	13	12	12	26
90°	2	9	19	21	22	3
95°	26	84	450	131	88	27
105°	88	130	610	1067	966	94
115°	156	194	467	1024	1174	154
125°	216	255	436	790	926	192
135°	254	303	430	650	751	196
145°	289	331	424	533	587	181
155°	329	354	411	467	487	151
165°	359	369	393	417	424	101
175°	374	375	377	383	382	36
180°	375	375	375	375	375	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.0	556.0	556.0	556.0	556.0
2.5°	558.2	556.4	551.0	556.0	555.1
5°	556.0	553.7	548.3	552.3	551.4
7.5°	551.9	549.6	542.9	545.6	544.2
10°	546.5	543.3	535.2	535.7	533.4
12.5°	538.8	535.2	524.8	524.4	521.7
15°	530.3	525.3	512.7	510.4	507.3
17.5°	519.9	514.5	498.7	494.2	489.7
20°	508.2	500.9	483.8	477.9	472.5
22.5°	495.1	486.5	468.0	460.4	455.4
25°	482.5	471.2	450.4	441.0	436.0
27.5°	467.1	455.0	432.4	419.8	412.1
30°	451.3	437.8	412.6	397.2	390.0
32.5°	435.6	419.8	392.7	375.6	367.9
35°	417.5	401.3	373.3	354.0	345.8
37.5°	399.5	381.9	352.6	331.0	321.0
40°	382.4	362.5	330.5	307.1	296.7
42.5°	363.0	343.1	309.8	283.6	274.6
45°	343.1	322.8	288.1	262.4	251.6
47.5°	323.7	301.2	266.9	239.0	229.5
50°	302.1	280.9	244.4	216.4	206.1
52.5°	282.7	259.3	223.2	193.9	184.9
55°	260.6	238.5	200.2	174.0	165.0
57.5°	240.8	216.9	178.1	153.3	145.6
60°	220.0	195.2	157.8	133.5	125.8
62.5°	199.3	174.5	137.1	114.5	106.4
65°	178.1	153.3	118.1	96.0	91.1
67.5°	156.9	131.7	97.4	80.7	75.3
70°	136.2	111.8	80.3	64.5	59.5
72.5°	115.4	91.5	63.6	51.4	50.0
75°	94.2	72.6	47.8	43.3	42.4
77.5°	74.8	55.0	37.4	34.7	33.8
80°	56.4	37.9	28.4	27.1	26.2
82.5°	38.8	23.4	20.3	18.9	18.9
85°	23.9	14.0	12.6	11.7	11.7
87.5°	10.8	5.9	5.9	5.4	5.0
90°	1.5	9.2	19.0	21.2	22.0
92.5°	11.4	45.6	141.2	48.2	40.2
95°	25.8	83.9	450.2	131.4	88.1
97.5°	41.0	96.1	692.3	330.2	180.7
100°	56.2	105.9	718.9	690.8	476.0
102.5°	72.1	117.3	669.6	925.0	753.8
105°	88.1	130.2	610.4	1067.4	965.6
107.5°	104.8	145.4	558.0	1130.0	1103.8
110°	123.0	161.0	514.7	1131.9	1182.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	139.7	177.2	485.9	1089.0	1198.7
115°	155.6	194.0	466.9	1023.7	1174.4
117.5°	171.6	209.9	454.0	953.9	1121.3
120°	188.3	225.8	445.6	887.8	1051.4
122.5°	202.7	241.0	440.3	835.8	986.1
125°	216.4	255.4	435.7	789.5	926.2
127.5°	227.0	269.2	433.5	751.6	874.5
130°	236.9	281.2	431.2	716.6	832.0
132.5°	244.4	292.2	430.4	684.0	790.3
135°	253.6	302.6	429.7	650.2	750.8
137.5°	261.9	310.9	428.2	618.4	709.0
140°	270.3	318.5	427.4	587.2	665.0
142.5°	279.4	325.3	425.9	558.8	624.0
145°	289.2	331.4	424.4	533.3	586.8
147.5°	299.1	337.8	422.1	513.6	554.9
150°	309.0	343.2	419.0	496.1	527.6
152.5°	318.8	348.8	415.3	480.9	504.8
155°	328.7	354.5	410.7	466.8	486.6
157.5°	336.3	359.5	406.9	453.2	469.2
160°	345.4	363.6	402.3	440.6	452.5
162.5°	352.2	366.6	397.8	428.9	437.3
165°	359.1	369.4	393.2	417.2	424.4
167.5°	364.4	371.6	388.7	406.9	411.5
170°	368.9	372.8	384.1	397.8	400.1
172.5°	372.0	373.9	380.3	389.8	389.4
175°	374.3	374.6	377.3	382.6	381.9
177.5°	375.8	375.0	375.0	378.1	376.5
180°	375.0	375.0	375.0	375.0	375.0

(END OF REPORT)