

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: P1012470

Luminaire Tested: S123RDIP-B340D365UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012470
REPORT IS A COMBINATION OF REPORTS P993203 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D365UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

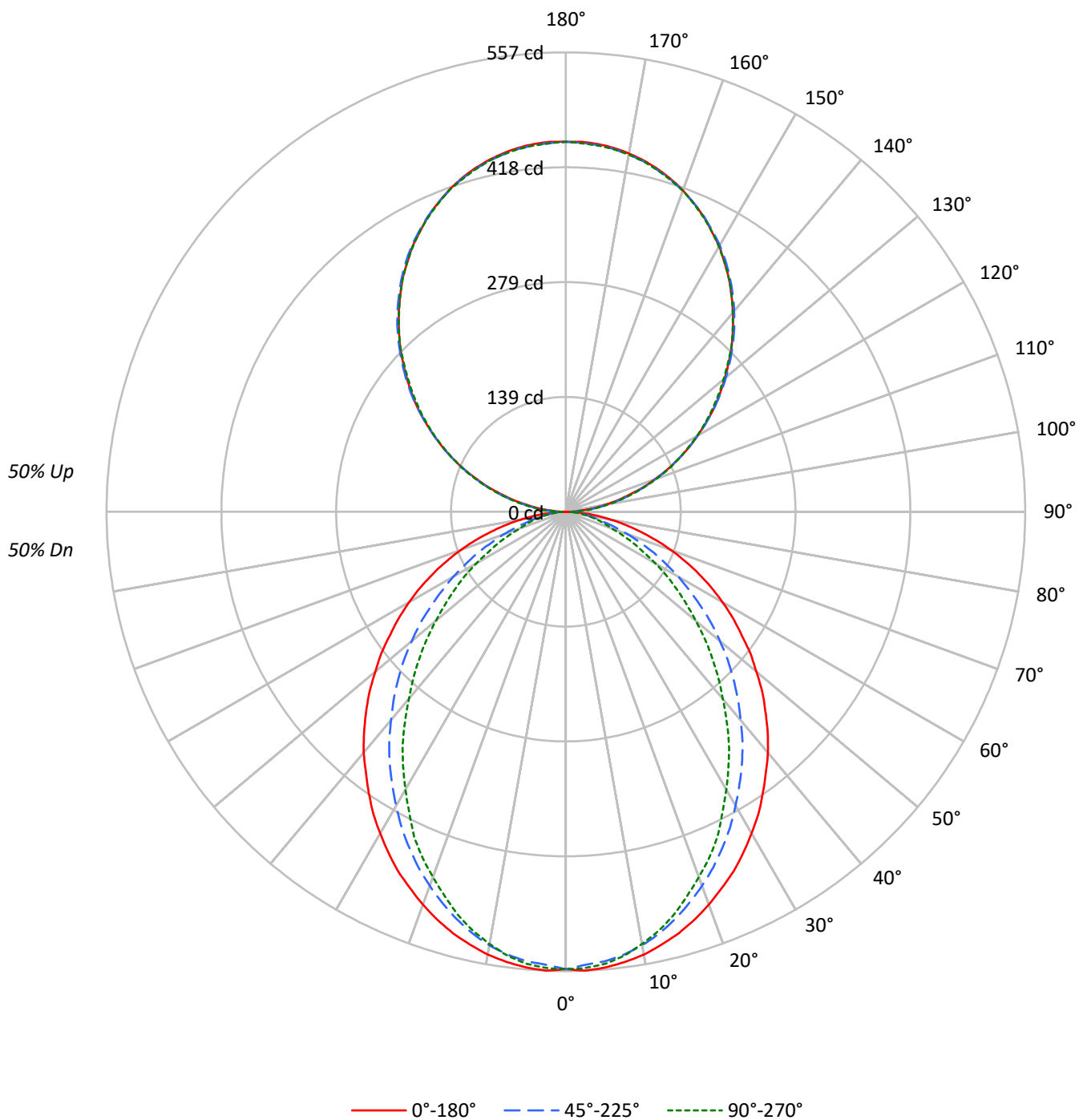
Lumens per Lamp: N/A
Luminaire Lumens: 2497.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56
1	98	94	90	87	90	87	84	81	74	71	69	62	60	58	50	49	48
2	90	82	76	71	83	76	71	67	65	61	58	54	52	49	45	43	41
3	82	73	66	60	75	67	61	56	58	53	49	48	45	42	40	37	35
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	32	29	27
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	29	26	24
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	27	24	21
8	55	43	35	30	51	40	33	28	35	29	25	30	25	22	25	22	19
9	51	39	32	27	47	36	30	25	32	26	23	27	23	20	23	20	17
10	48	36	29	24	44	34	27	23	29	24	20	25	21	18	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5970	5970	5970
5°	5979	5759	5743
10°	5933	5542	5433
15°	5856	5274	5093
20°	5754	4984	4714
25°	5650	4681	4354
30°	5517	4359	3929
35°	5379	4043	3541
40°	5249	3700	3114
45°	5084	3364	2729
50°	4901	3006	2331
55°	4711	2622	1966
60°	4529	2229	1596
65°	4296	1826	1246
70°	3999	1381	891
75°	3576	935	706
80°	3051	649	495
85°	2286	351	259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5084 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.1	2.1
10°-20°	145.0	5.8
20°-30°	208.8	8.4
30°-40°	235.2	9.4
40°-50°	225.0	9.0
50°-60°	184.1	7.4
60°-70°	124.2	5.0
70°-80°	62.3	2.5
80°-90°	17.2	0.7
90°-100°	28.9	1.2
100°-110°	87.4	3.5
110°-120°	148.8	6.0
120°-130°	195.8	7.8
130°-140°	220.0	8.8
140°-150°	216.3	8.7
150°-160°	182.1	7.3
160°-170°	121.2	4.9
170°-180°	42.5	1.7
0°-30°	406.0	16.3
0°-40°	641.2	25.7
0°-60°	1050.3	42.1
0°-90°	1253.9	50.2
90°-120°	265.1	10.6
90°-150°	897.2	35.9
90°-180°	1243.0	49.8
0°-180°	2497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	555	555	555	555	555	
5°	555	552	547	551	550	53
15°	529	524	511	509	506	149
25°	481	470	449	440	435	221
35°	416	400	372	353	345	261
45°	342	322	287	262	251	264
55°	260	238	200	174	165	233
65°	178	153	118	96	91	176
75°	94	72	48	43	42	100
85°	24	14	13	12	12	26
90°	0	4	8	10	11	3
95°	21	23	26	28	28	23
105°	79	80	83	83	84	85
115°	150	151	150	150	150	148
125°	219	220	220	218	217	195
135°	284	286	286	285	284	219
145°	345	346	347	346	345	216
155°	395	395	395	397	394	182
165°	430	429	429	431	429	121
175°	448	446	446	448	446	43
180°	449	449	449	449	449	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	554.6	554.6	554.6	554.6	554.6
2.5°	556.9	555.1	549.7	554.6	553.7
5°	554.6	552.4	547.0	551.0	550.1
7.5°	550.6	548.3	541.6	544.3	542.9
10°	545.2	542.0	533.9	534.4	532.1
12.5°	537.5	533.9	523.6	523.1	520.4
15°	529.0	524.0	511.4	509.2	506.0
17.5°	518.6	513.2	497.5	493.0	488.5
20°	506.9	499.7	482.7	476.8	471.4
22.5°	493.9	485.4	466.9	459.3	454.3
25°	481.3	470.1	449.4	439.9	435.0
27.5°	466.0	453.9	431.4	418.8	411.1
30°	450.3	436.8	411.6	396.3	389.1
32.5°	434.5	418.8	391.8	374.7	367.1
35°	416.5	400.3	372.4	353.1	345.0
37.5°	398.5	381.0	351.8	330.2	320.3
40°	381.4	361.7	329.7	306.3	296.0
42.5°	362.1	342.3	309.0	282.9	273.9
45°	342.3	322.1	287.4	261.8	251.0
47.5°	323.0	300.5	266.3	238.4	229.0
50°	301.4	280.2	243.8	215.9	205.6
52.5°	282.0	258.6	222.7	193.4	184.4
55°	260.0	238.0	199.7	173.6	164.6
57.5°	240.2	216.4	177.7	152.9	145.3
60°	219.5	194.8	157.4	133.1	125.5
62.5°	198.8	174.1	136.7	114.3	106.2
65°	177.7	152.9	117.9	95.8	90.9
67.5°	156.5	131.3	97.2	80.5	75.1
70°	135.8	111.6	80.1	64.3	59.4
72.5°	115.2	91.3	63.4	51.3	49.9
75°	94.0	72.4	47.7	43.2	42.3
77.5°	74.7	54.9	37.3	34.6	33.7
80°	56.2	37.8	28.3	27.0	26.1
82.5°	38.7	23.4	20.2	18.9	18.9
85°	23.8	13.9	12.6	11.7	11.7
87.5°	10.8	5.8	5.8	5.4	4.9
90°	0.4	3.9	8.5	9.9	10.6
92.5°	10.6	12.7	14.8	15.9	15.2
95°	20.8	23.3	26.1	27.5	27.5
97.5°	34.2	35.9	38.1	39.8	39.5
100°	47.9	50.0	51.8	52.9	53.6
102.5°	63.8	64.8	67.3	68.4	68.0
105°	79.3	80.0	83.2	83.2	83.9
107.5°	97.6	98.0	99.4	100.4	100.1
110°	114.5	115.2	115.9	117.4	116.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	132.2	132.5	132.5	134.3	134.3
115°	149.8	150.8	150.1	150.5	150.1
117.5°	167.7	168.1	167.4	167.4	166.3
120°	184.3	186.4	184.7	184.3	183.6
122.5°	201.6	203.0	202.3	201.2	200.2
125°	219.2	220.3	219.6	218.1	216.7
127.5°	235.4	237.5	236.8	234.7	233.3
130°	251.6	254.4	253.4	252.0	249.5
132.5°	267.8	270.7	269.9	268.2	266.4
135°	284.4	286.5	286.2	284.8	284.0
137.5°	299.6	301.3	302.4	300.6	299.6
140°	315.4	317.2	317.5	317.2	314.7
142.5°	329.9	331.6	332.3	332.0	330.2
145°	345.0	345.7	346.8	346.4	345.0
147.5°	358.1	359.5	360.5	360.5	358.4
150°	371.8	372.5	373.2	373.2	371.1
152.5°	383.1	384.1	384.5	385.2	383.4
155°	395.1	395.1	395.4	396.8	394.4
157.5°	405.3	404.9	405.3	406.7	404.6
160°	414.8	414.1	414.1	415.8	414.4
162.5°	423.2	422.2	422.5	424.3	421.8
165°	430.3	429.2	429.2	431.4	428.9
167.5°	436.3	434.9	435.2	437.3	435.2
170°	441.2	439.8	439.8	442.3	439.8
172.5°	445.1	443.7	443.7	445.8	443.3
175°	447.6	446.2	446.2	448.3	445.8
177.5°	449.0	447.6	447.6	449.7	447.2
180°	448.6	448.6	448.6	448.6	448.6

(END OF REPORT)