

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: P1012469

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012469
REPORT IS A COMBINATION OF REPORTS P993202 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-F
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

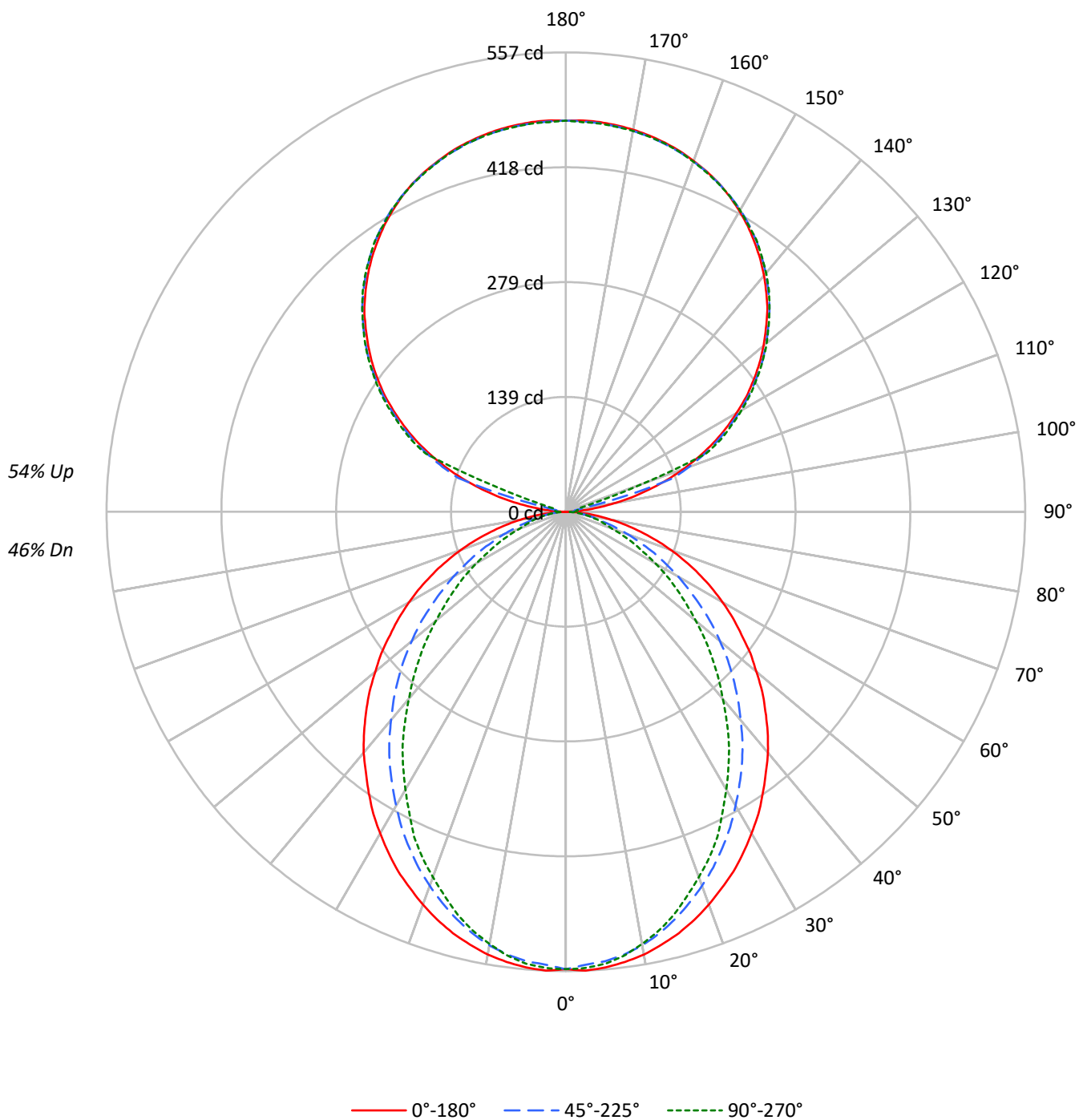
Lumens per Lamp: N/A
Luminaire Lumens: 2700.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	81	81	81	66	66	66	53	53	53			46
1	97	93	89	86	89	86	82	80	72	69	67	59	57	56	47	46	45			40
2	89	82	76	71	81	75	70	66	63	59	56	52	50	47	42	40	39			34
3	81	72	65	59	74	66	60	55	56	51	48	46	43	40	37	35	33			29
4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	34	31	29			25
5	68	57	49	43	63	53	46	41	45	39	35	37	33	30	30	28	25			22
6	63	51	43	38	58	47	40	35	40	35	31	34	30	27	28	25	22			19
7	58	46	38	33	53	43	36	31	37	31	27	31	27	24	25	22	20			17
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	23	20	18			16
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	18	16			14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15			13

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	1.9
10°-20°	145.0	5.4
20°-30°	208.8	7.7
30°-40°	235.2	8.7
40°-50°	225.0	8.3
50°-60°	184.1	6.8
60°-70°	124.2	4.6
70°-80°	62.3	2.3
80°-90°	17.2	0.6
90°-100°	16.7	0.6
100°-110°	80.9	3.0
110°-120°	198.2	7.3
120°-130°	251.6	9.3
130°-140°	268.8	10.0
140°-150°	251.3	9.3
150°-160°	202.7	7.5
160°-170°	130.8	4.8
170°-180°	45.1	1.7
0°-30°	406.0	15.0
0°-40°	641.2	23.7
0°-60°	1050.3	38.9
0°-90°	1253.9	46.4
90°-120°	295.8	11.0
90°-150°	1067.4	39.5
90°-180°	1446.0	53.6
0°-180°	2700.0	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°	22	7	11	13	13	26
105°	105	109	77	15	16	111
115°	197	199	202	206	207	195
125°	278	280	282	283	283	248
135°	346	348	349	350	349	266
145°	399	401	402	403	403	250
155°	439	439	439	441	439	202
165°	463	462	462	465	462	131
175°	474	473	473	475	473	45
180°	474	474	474	474	474	

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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°	8.1	6.0	9.2	11.6	12.0
95°	21.5	7.0	10.9	13.4	13.4
97.5°	39.1	29.2	11.3	14.1	14.4
100°	59.6	66.6	11.6	14.4	14.8
102.5°	82.8	87.4	26.1	14.4	15.2
105°	105.0	108.9	77.2	14.8	15.5
107.5°	128.6	131.8	137.1	82.8	36.7
110°	152.2	155.1	158.9	147.3	96.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	177.3	181.1	184.3	183.6
115°	197.0	199.1	202.3	205.8	207.2
117.5°	218.8	221.3	223.1	225.9	226.2
120°	238.9	242.1	243.2	246.0	246.0
122.5°	259.4	261.8	263.2	265.0	265.4
125°	277.7	280.5	281.9	282.6	283.3
127.5°	296.0	298.8	300.6	301.7	301.0
130°	312.9	315.8	317.2	318.6	317.9
132.5°	329.1	332.0	333.0	334.4	333.4
135°	345.7	347.8	349.2	350.3	349.2
137.5°	359.8	362.6	363.3	365.1	364.4
140°	373.9	376.0	377.1	378.5	377.8
142.5°	386.9	389.1	390.1	391.2	390.1
145°	398.9	401.4	402.1	402.8	402.8
147.5°	410.6	412.3	413.0	413.7	412.0
150°	421.1	422.2	422.9	423.6	422.5
152.5°	430.6	431.0	431.3	432.8	431.0
155°	439.4	438.7	439.1	440.9	438.7
157.5°	446.5	446.5	446.1	448.3	445.4
160°	452.8	452.5	452.1	454.2	451.8
162.5°	458.8	457.8	457.4	459.9	457.8
165°	463.4	462.4	462.0	464.8	462.4
167.5°	467.3	465.9	465.9	468.7	465.9
170°	470.5	469.0	469.0	471.9	469.0
172.5°	472.6	470.8	471.2	474.0	470.8
175°	474.3	472.6	472.9	475.4	472.6
177.5°	475.0	473.3	473.6	476.5	472.9
180°	474.3	474.3	474.3	474.3	474.3

(END OF REPORT)