

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: P1012511

Luminaire Tested: S123RDIP-B340D585UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012511
REPORT IS A COMBINATION OF REPORTS P993266 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D585UB35-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

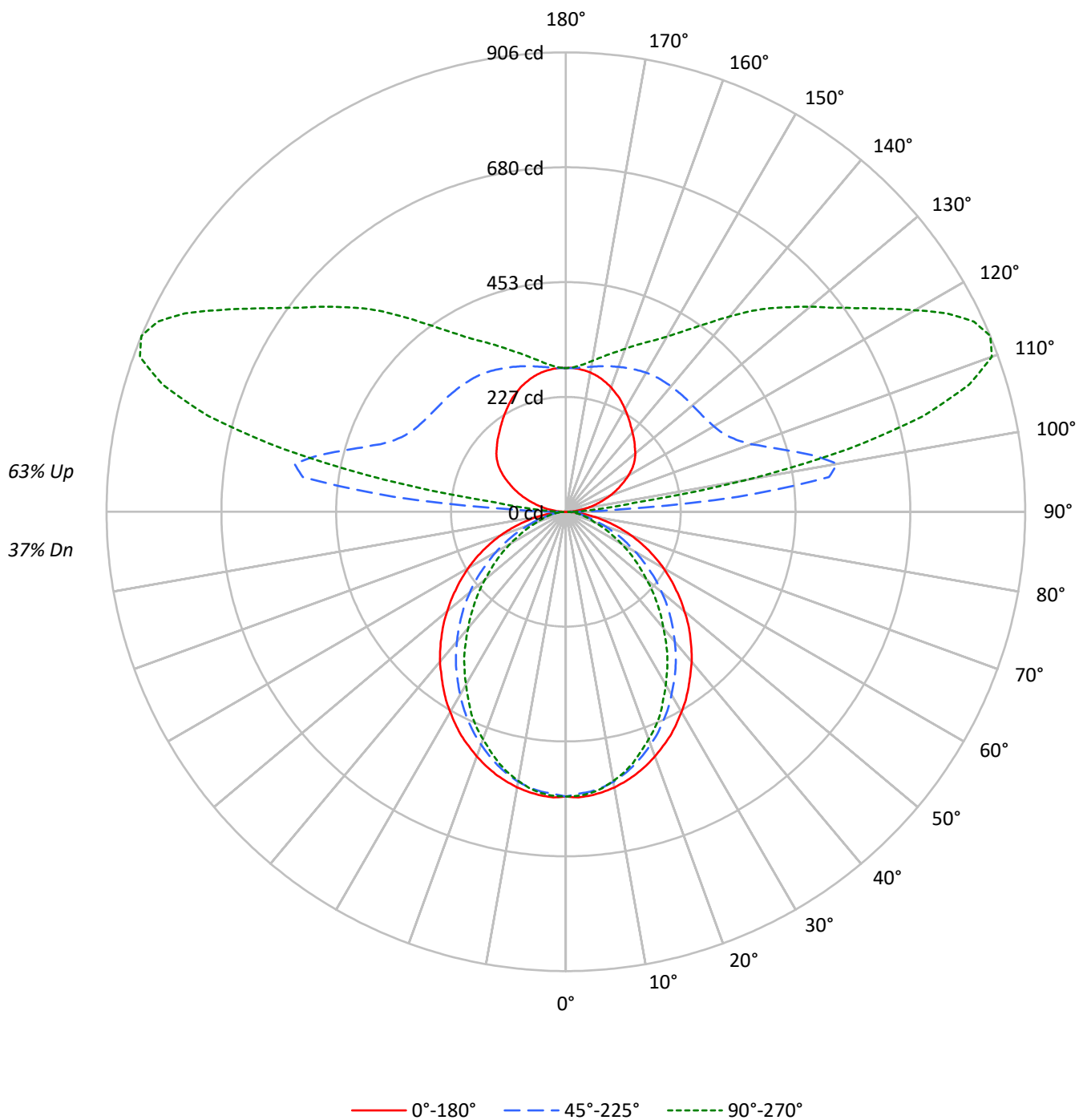
Lumens per Lamp: N/A
Luminaire Lumens: 3407.9 lumens
Efficiency: N/A
Efficacy: 120.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 28.4
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	44	44	44
1	95	91	87	84	86	83	80	77	67	65	63	53	51	50	40	39	38
2	87	80	74	69	79	73	68	63	59	56	53	47	44	42	35	34	32
3	79	70	63	58	72	64	58	53	52	48	44	41	38	36	31	29	28
4	73	62	55	49	66	57	50	45	47	42	38	37	34	31	28	26	24
5	67	55	48	42	60	51	44	39	42	37	33	33	30	27	25	23	21
6	61	50	42	36	56	46	39	34	38	32	29	30	26	24	23	21	19
7	57	45	37	32	51	41	34	30	34	29	25	27	24	21	21	19	17
8	53	41	33	28	48	37	31	26	31	26	22	25	21	19	19	17	15
9	49	37	30	25	44	34	28	23	28	23	20	23	19	17	18	15	14
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6046	6046	6046
5°	6056	5833	5817
10°	6008	5613	5502
15°	5930	5342	5158
20°	5828	5047	4774
25°	5723	4741	4409
30°	5587	4415	3979
35°	5449	4095	3587
40°	5316	3747	3154
45°	5149	3407	2764
50°	4963	3044	2361
55°	4771	2656	1991
60°	4587	2257	1616
65°	4349	1849	1261
70°	4052	1398	901
75°	3621	947	714
80°	3089	658	501
85°	2315	356	262

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5149 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.8	1.5
10°-20°	146.9	4.3
20°-30°	211.5	6.2
30°-40°	238.2	7.0
40°-50°	227.8	6.7
50°-60°	186.5	5.5
60°-70°	125.7	3.7
70°-80°	63.1	1.9
80°-90°	18.1	0.5
90°-100°	161.1	4.7
100°-110°	450.3	13.2
110°-120°	439.1	12.9
120°-130°	349.6	10.3
130°-140°	276.0	8.1
140°-150°	205.9	6.0
150°-160°	143.6	4.2
160°-170°	84.4	2.5
170°-180°	27.4	0.8
0°-30°	411.2	12.1
0°-40°	649.4	19.1
0°-60°	1063.7	31.2
0°-90°	1270.5	37.3
90°-120°	1050.4	30.8
90°-150°	1881.9	55.2
90°-180°	2137.0	62.7
0°-180°	3407.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	562	562	562	562	562	
5°	562	559	554	558	557	53
15°	536	531	518	516	512	151
25°	488	476	455	446	440	224
35°	422	406	377	358	349	264
45°	347	326	291	265	254	268
55°	263	241	202	176	167	236
65°	180	155	119	97	92	178
75°	95	73	48	44	43	101
85°	24	14	13	12	12	26
90°	1	7	14	16	17	3
95°	20	63	340	99	67	21
105°	67	98	461	807	730	71
115°	118	147	353	774	888	116
125°	164	193	329	597	700	145
135°	192	229	325	492	568	148
145°	219	250	321	403	444	137
155°	248	268	310	353	368	114
165°	271	279	297	315	321	77
175°	283	283	285	289	289	27
180°	284	284	284	284	284	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	561.7	561.7	561.7	561.7	561.7
2.5°	564.0	562.2	556.7	561.7	560.8
5°	561.7	559.4	554.0	558.1	557.2
7.5°	557.6	555.3	548.5	551.2	549.9
10°	552.1	549.0	540.8	541.2	538.9
12.5°	544.4	540.8	530.3	529.8	527.1
15°	535.7	530.7	518.0	515.7	512.5
17.5°	525.3	519.8	503.9	499.3	494.7
20°	513.4	506.1	488.8	482.9	477.4
22.5°	500.2	491.6	472.9	465.1	460.1
25°	487.5	476.1	455.1	445.5	440.5
27.5°	472.0	459.7	436.9	424.1	416.4
30°	456.0	442.4	416.8	401.4	394.1
32.5°	440.1	424.1	396.8	379.5	371.7
35°	421.9	405.5	377.2	357.6	349.4
37.5°	403.6	385.9	356.3	334.4	324.4
40°	386.3	366.3	333.9	310.2	299.8
42.5°	366.7	346.7	313.0	286.5	277.4
45°	346.7	326.2	291.1	265.1	254.2
47.5°	327.1	304.3	269.7	241.4	231.9
50°	305.2	283.8	246.9	218.7	208.2
52.5°	285.6	261.9	225.5	195.9	186.8
55°	263.3	241.0	202.3	175.8	166.7
57.5°	243.3	219.1	179.9	154.9	147.1
60°	222.3	197.3	159.4	134.8	127.1
62.5°	201.4	176.3	138.5	115.7	107.5
65°	179.9	154.9	119.4	97.0	92.0
67.5°	158.5	133.0	98.4	81.5	76.1
70°	137.6	113.0	81.1	65.1	60.1
72.5°	116.6	92.5	64.2	51.9	50.6
75°	95.2	73.3	48.3	43.7	42.8
77.5°	75.6	55.6	37.8	35.1	34.2
80°	56.9	38.3	28.7	27.3	26.4
82.5°	39.2	23.7	20.5	19.1	19.1
85°	24.1	14.1	12.8	11.8	11.8
87.5°	10.9	5.9	5.9	5.5	5.0
90°	1.1	6.9	14.3	16.0	16.6
92.5°	8.6	34.4	106.7	36.4	30.4
95°	19.5	63.4	340.3	99.2	66.6
97.5°	31.0	72.6	523.4	249.6	136.6
100°	42.5	80.1	543.4	522.2	359.8
102.5°	54.5	88.6	506.1	699.2	569.8
105°	66.6	98.4	461.4	806.8	730.0
107.5°	79.2	109.9	421.8	854.2	834.4
110°	93.0	121.6	389.1	855.6	894.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	105.6	134.0	367.3	823.2	906.1
115°	117.6	146.6	352.9	773.8	887.8
117.5°	129.7	158.6	343.2	721.0	847.6
120°	142.3	170.8	336.9	671.2	794.8
122.5°	153.2	182.2	332.8	631.8	745.4
125°	163.6	193.2	329.4	596.8	700.1
127.5°	171.6	203.4	327.7	568.2	661.1
130°	179.0	212.6	326.0	541.7	629.0
132.5°	184.8	221.0	325.4	517.0	597.4
135°	191.7	228.6	324.8	491.6	567.6
137.5°	198.0	235.0	323.7	467.4	536.0
140°	204.3	240.8	323.1	443.8	502.7
142.5°	211.2	245.9	321.9	422.4	471.7
145°	218.6	250.5	320.8	403.2	443.6
147.5°	226.1	255.4	319.1	388.2	419.5
150°	233.6	259.4	316.8	375.0	398.8
152.5°	241.0	263.7	313.9	363.5	381.6
155°	248.5	268.0	310.5	353.0	367.8
157.5°	254.2	271.8	307.6	342.6	354.6
160°	261.1	274.9	304.1	333.1	342.0
162.5°	266.3	277.2	300.7	324.2	330.5
165°	271.4	279.2	297.3	315.4	320.8
167.5°	275.5	280.9	293.8	307.5	311.0
170°	278.9	281.8	290.4	300.7	302.4
172.5°	281.2	282.6	287.5	294.7	294.4
175°	282.9	283.2	285.2	289.2	288.7
177.5°	284.1	283.5	283.5	285.8	284.6
180°	283.5	283.5	283.5	283.5	283.5

(END OF REPORT)