

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: P1012423

Luminaire Tested: S123RDIP-B340D1025UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012423
REPORT IS A COMBINATION OF REPORTS P993146 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D1025UB35-4F0-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

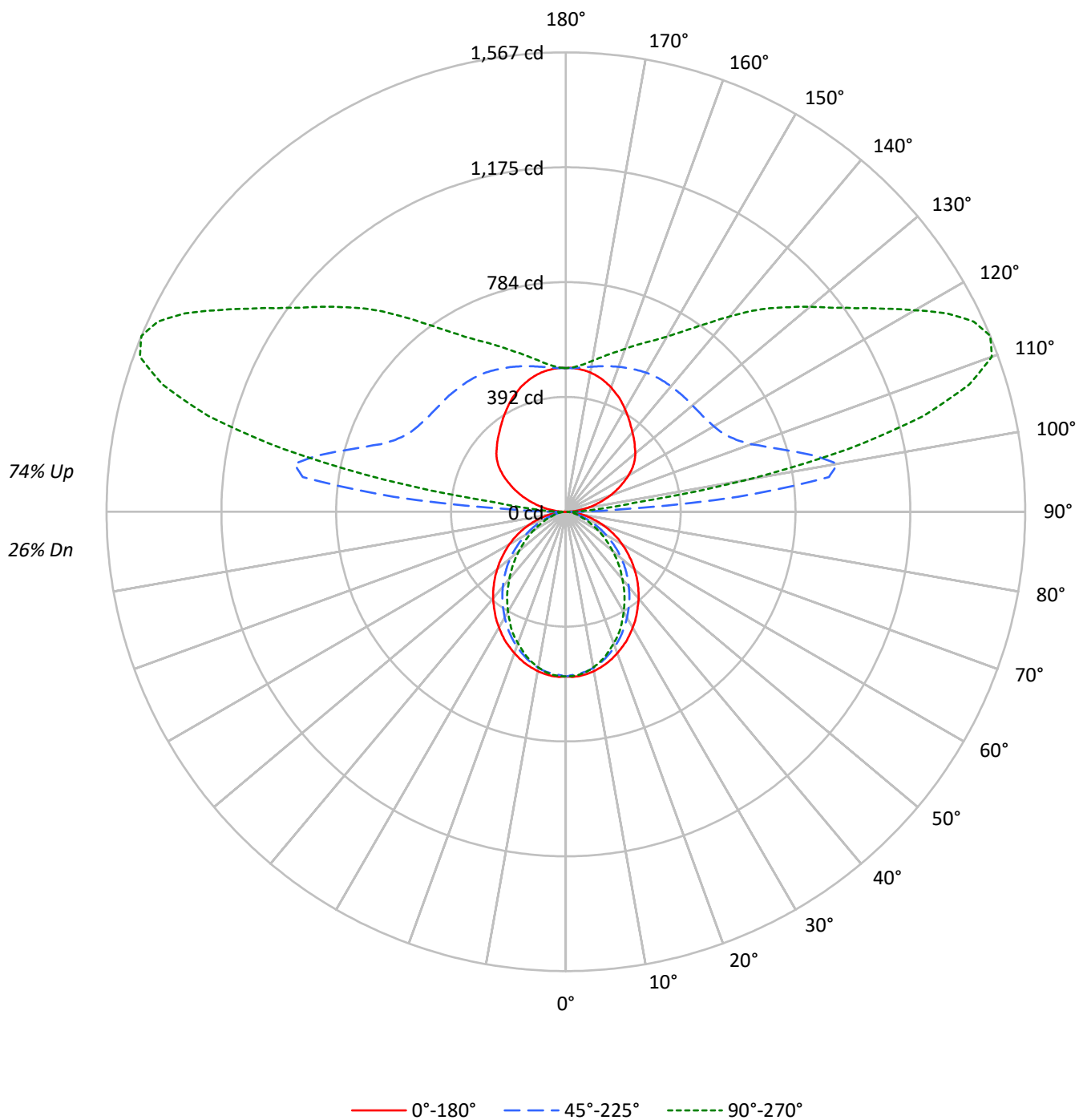
Lumens per Lamp: N/A
Luminaire Lumens: 4968.5 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	85	81	82	79	76	73	61	59	57	45	44	43	30	29	29	22
2	84	77	72	67	75	69	64	60	54	51	48	40	38	36	27	25	24	19
3	77	68	61	56	68	61	55	50	48	44	40	35	33	30	24	22	21	16
4	70	60	53	47	62	54	48	43	42	38	34	31	28	26	21	20	18	14
5	65	54	46	40	57	48	41	37	38	33	29	28	25	23	19	17	16	12
6	59	48	40	35	53	43	36	32	34	29	26	25	22	20	17	15	14	11
7	55	43	36	30	49	39	32	28	31	26	22	23	20	17	16	14	12	10
8	51	39	32	27	45	35	29	24	28	23	20	21	18	15	15	13	11	9
9	47	35	28	24	42	32	26	22	25	21	18	19	16	14	13	12	10	8
10	44	32	26	21	39	29	23	19	23	19	16	18	15	12	12	11	9	7

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	1.1
10°-20°	146.9	3.0
20°-30°	211.5	4.3
30°-40°	238.2	4.8
40°-50°	227.8	4.6
50°-60°	186.5	3.8
60°-70°	125.7	2.5
70°-80°	63.1	1.3
80°-90°	19.2	0.4
90°-100°	278.6	5.6
100°-110°	778.8	15.7
110°-120°	759.4	15.3
120°-130°	604.7	12.2
130°-140°	477.3	9.6
140°-150°	356.1	7.2
150°-160°	248.4	5.0
160°-170°	145.9	2.9
170°-180°	47.5	1.0
0°-30°	411.2	8.3
0°-40°	649.4	13.1
0°-60°	1063.7	21.4
0°-90°	1271.7	25.6
90°-120°	1816.8	36.6
90°-150°	3255.0	65.5
90°-180°	3697.0	74.4
0°-180°	4968.5	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°	2	12	25	28	29	4
95°	34	110	589	172	115	36
105°	115	170	798	1396	1262	122
115°	204	254	610	1338	1536	201
125°	283	334	570	1032	1211	251
135°	332	396	562	850	982	256
145°	378	433	555	697	767	237
155°	430	464	537	610	636	198
165°	470	483	514	545	555	132
175°	489	490	493	500	499	46
180°	490	490	490	490	490	

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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°	2.0	11.9	24.8	27.8	28.8
92.5°	14.9	59.6	184.6	63.0	52.6
95°	33.7	109.6	588.6	171.7	115.1
97.5°	53.6	125.6	905.2	431.8	236.2
100°	73.4	138.4	940.0	903.2	622.3
102.5°	94.3	153.4	875.4	1209.4	985.6
105°	115.1	170.2	798.0	1395.5	1262.5
107.5°	137.0	190.1	729.5	1477.4	1443.2
110°	160.8	210.4	673.0	1480.0	1546.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.6	231.8	635.2	1423.8	1567.3
115°	203.5	253.6	610.4	1338.5	1535.5
117.5°	224.3	274.4	593.6	1247.2	1466.0
120°	246.2	295.3	582.6	1160.8	1374.7
122.5°	265.0	315.1	575.7	1092.8	1289.3
125°	282.9	334.0	569.7	1032.3	1210.9
127.5°	296.8	351.9	566.8	982.6	1143.4
130°	309.7	367.7	563.8	937.0	1087.8
132.5°	319.6	382.1	562.8	894.3	1033.3
135°	331.5	395.5	561.8	850.1	981.6
137.5°	342.4	406.4	559.8	808.4	927.1
140°	353.4	416.4	558.8	767.8	869.5
142.5°	365.3	425.3	556.8	730.6	815.9
145°	378.2	433.2	554.8	697.3	767.3
147.5°	391.1	441.7	551.9	671.4	725.6
150°	404.0	448.6	547.9	648.7	689.8
152.5°	416.9	456.0	542.9	628.8	660.1
155°	429.8	463.6	537.0	610.4	636.2
157.5°	439.7	470.0	532.0	592.6	613.4
160°	451.6	475.4	526.1	576.2	591.6
162.5°	460.5	479.4	520.1	560.8	571.7
165°	469.5	482.9	514.1	545.4	554.8
167.5°	476.4	485.8	508.2	532.0	538.0
170°	482.4	487.4	502.2	520.1	523.1
172.5°	486.4	488.8	497.3	509.7	509.2
175°	489.3	489.8	493.3	500.3	499.3
177.5°	491.3	490.3	490.3	494.3	492.3
180°	490.3	490.3	490.3	490.3	490.3

(END OF REPORT)