

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: P1012539

Luminaire Tested: S123RDIP-B340D805UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012539
REPORT IS A COMBINATION OF REPORTS P993306 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D805UB35-4F0-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

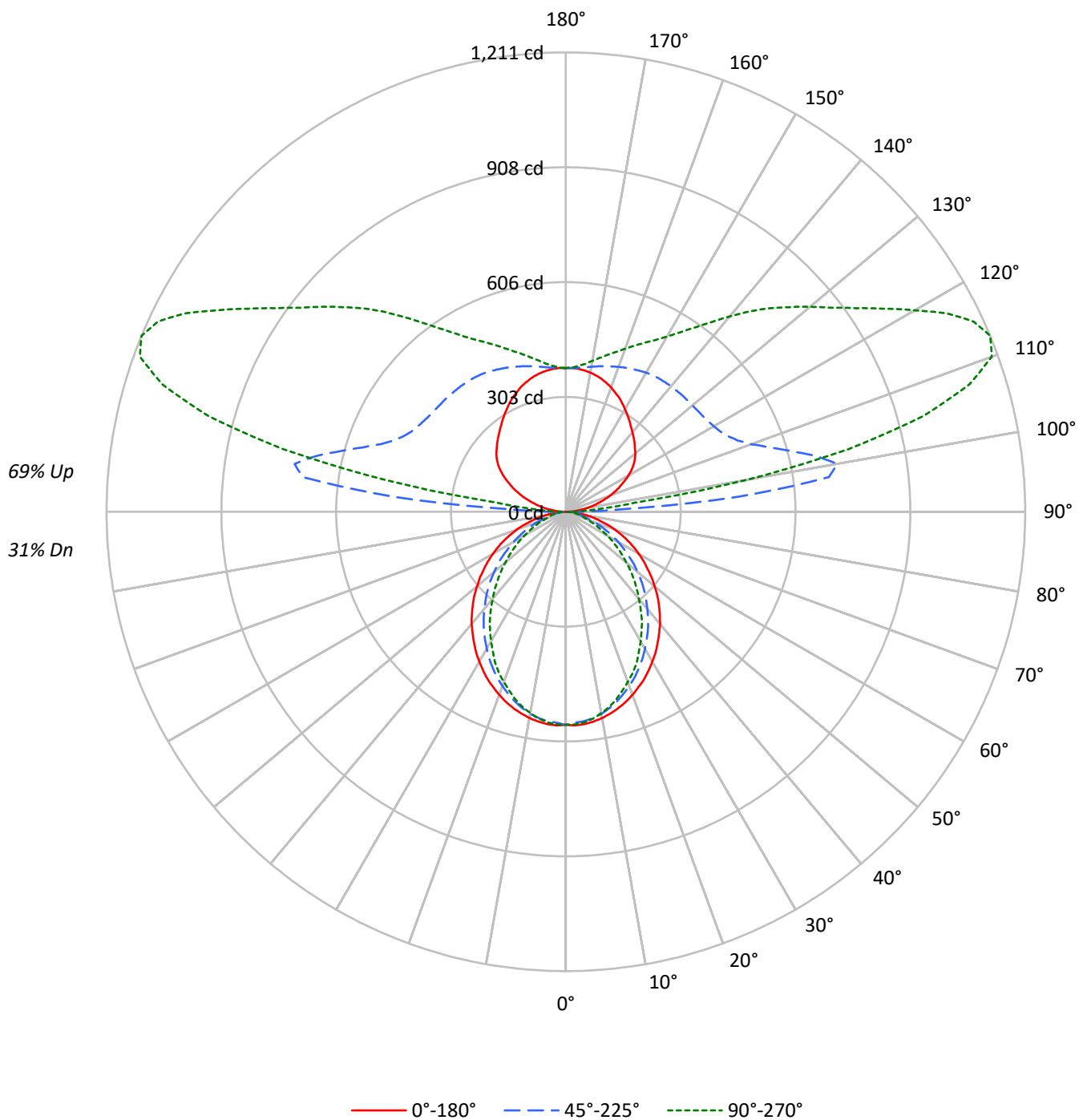
Lumens per Lamp: N/A
Luminaire Lumens: 4127.6 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 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°	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	1.3
10°-20°	146.9	3.6
20°-30°	211.5	5.1
30°-40°	238.2	5.8
40°-50°	227.8	5.5
50°-60°	186.5	4.5
60°-70°	125.7	3.0
70°-80°	63.1	1.5
80°-90°	18.6	0.5
90°-100°	215.3	5.2
100°-110°	601.8	14.6
110°-120°	586.8	14.2
120°-130°	467.2	11.3
130°-140°	368.8	8.9
140°-150°	275.2	6.7
150°-160°	192.0	4.7
160°-170°	112.8	2.7
170°-180°	36.7	0.9
0°-30°	411.2	10.0
0°-40°	649.4	15.7
0°-60°	1063.7	25.8
0°-90°	1271.1	30.8
90°-120°	1403.9	34.0
90°-150°	2515.1	60.9
90°-180°	2857.0	69.2
0°-180°	4127.6	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	9	19	21	22	3
95°	26	85	455	133	89	28
105°	89	132	617	1078	976	94
115°	157	196	472	1034	1186	156
125°	219	258	440	798	936	194
135°	256	306	434	657	758	198
145°	292	335	429	539	593	183
155°	332	358	415	472	492	153
165°	363	373	397	421	429	102
175°	378	378	381	386	386	36
180°	379	379	379	379	379	

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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°	1.5	9.2	19.2	21.4	22.2
92.5°	11.5	46.0	142.7	48.7	40.6
95°	26.1	84.8	454.8	132.7	89.0
97.5°	41.4	97.0	699.5	333.6	182.5
100°	56.8	107.0	726.3	698.0	480.9
102.5°	72.9	118.5	676.4	934.5	761.6
105°	89.0	131.5	616.6	1078.4	975.6
107.5°	105.8	146.8	563.7	1141.6	1115.1
110°	124.2	162.6	520.0	1143.6	1194.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.1	179.0	490.8	1100.2	1211.0
115°	157.2	196.0	471.7	1034.2	1186.5
117.5°	173.3	212.0	458.6	963.6	1132.8
120°	190.2	228.2	450.2	897.0	1062.2
122.5°	204.8	243.6	444.8	844.4	996.3
125°	218.6	258.0	440.2	797.6	935.7
127.5°	229.3	271.8	437.9	759.3	883.5
130°	239.3	284.2	435.6	724.0	840.6
132.5°	247.0	295.2	434.9	691.0	798.4
135°	256.2	305.6	434.1	656.8	758.5
137.5°	264.6	314.1	432.6	624.7	716.3
140°	273.0	321.7	431.8	593.2	671.8
142.5°	282.2	328.6	430.3	564.5	630.4
145°	292.2	334.8	428.7	538.8	592.8
147.5°	302.2	341.3	426.4	518.8	560.6
150°	312.1	346.7	423.4	501.2	533.0
152.5°	322.1	352.4	419.5	485.8	510.0
155°	332.1	358.2	414.9	471.7	491.6
157.5°	339.8	363.2	411.1	457.8	474.0
160°	349.0	367.4	406.5	445.2	457.1
162.5°	355.9	370.4	401.9	433.3	441.8
165°	362.8	373.1	397.3	421.4	428.7
167.5°	368.1	375.4	392.7	411.0	415.7
170°	372.7	376.6	388.1	401.8	404.2
172.5°	375.8	377.7	384.2	393.8	393.4
175°	378.1	378.5	381.2	386.5	385.8
177.5°	379.6	378.9	378.9	381.9	380.4
180°	378.9	378.9	378.9	378.9	378.9

(END OF REPORT)