

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: P1012458

Luminaire Tested: S123RDIP-B340D1195UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012458
REPORT IS A COMBINATION OF REPORTS P993191 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B340D1195UB40-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

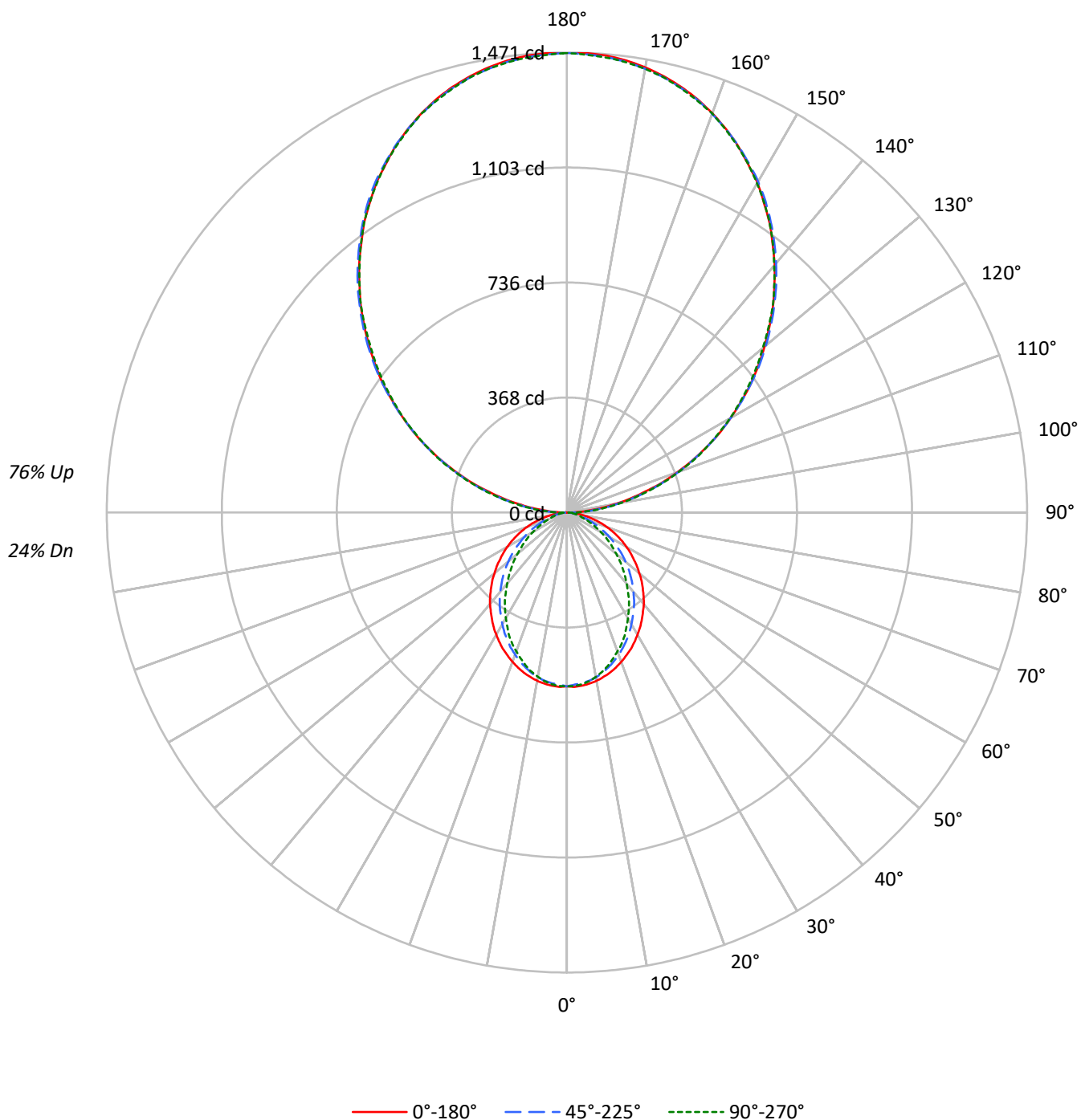
Lumens per Lamp: N/A
Luminaire Lumens: 5331.0 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32
1	92	88	84	81	82	78	75	72	60	58	56	44	42	41	28	28	27
2	84	77	71	66	74	69	64	60	53	50	47	38	36	35	25	24	23
3	77	68	61	55	68	60	55	50	47	43	40	34	32	29	22	21	20
4	70	60	52	47	62	53	47	42	42	37	34	30	28	25	20	18	17
5	64	53	45	40	57	48	41	36	37	32	29	27	24	22	18	16	15
6	59	48	40	34	52	43	36	31	33	29	25	25	21	19	16	15	13
7	54	43	35	30	48	38	32	27	30	25	22	22	19	17	15	13	12
8	50	39	31	26	45	35	28	24	27	23	19	20	17	15	14	12	11
9	47	35	28	23	42	32	26	21	25	20	17	19	16	13	13	11	9
10	44	32	25	21	39	29	23	19	23	19	15	17	14	12	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5985	5985	5985
5°	5994	5773	5756
10°	5947	5555	5446
15°	5870	5288	5106
20°	5769	4995	4725
25°	5664	4692	4364
30°	5529	4370	3938
35°	5392	4053	3550
40°	5263	3709	3121
45°	5095	3372	2736
50°	4913	3013	2337
55°	4722	2629	1971
60°	4540	2234	1600
65°	4305	1829	1249
70°	4011	1384	892
75°	3583	937	707
80°	3062	651	497
85°	2296	351	259

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	1.0
10°-20°	145.4	2.7
20°-30°	209.3	3.9
30°-40°	235.7	4.4
40°-50°	225.5	4.2
50°-60°	184.6	3.5
60°-70°	124.4	2.3
70°-80°	62.4	1.2
80°-90°	19.4	0.4
90°-100°	94.6	1.8
100°-110°	286.3	5.4
110°-120°	487.4	9.1
120°-130°	641.3	12.0
130°-140°	720.8	13.5
140°-150°	708.6	13.3
150°-160°	596.6	11.2
160°-170°	397.2	7.5
170°-180°	139.1	2.6
0°-30°	407.0	7.6
0°-40°	642.7	12.1
0°-60°	1052.8	19.7
0°-90°	1259.1	23.6
90°-120°	868.4	16.3
90°-150°	2939.0	55.1
90°-180°	4072.0	76.4
0°-180°	5331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	556	554	548	552	551	53
15°	530	525	513	510	507	149
25°	482	471	450	441	436	222
35°	418	401	373	354	346	261
45°	343	323	288	262	252	265
55°	261	238	200	174	165	234
65°	178	153	118	96	91	176
75°	94	73	48	43	42	100
85°	24	14	13	12	12	26
90°	1	13	28	32	35	7
95°	68	76	85	90	90	75
105°	260	262	272	272	275	278
115°	491	494	492	493	492	486
125°	718	722	719	715	710	640
135°	932	938	937	933	930	718
145°	1130	1132	1136	1135	1130	706
155°	1294	1294	1295	1300	1292	596
165°	1410	1406	1406	1413	1405	398
175°	1466	1462	1462	1468	1460	139
180°	1470	1470	1470	1470	1470	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	556.0	556.0	556.0	556.0	556.0
2.5°	558.2	556.4	551.0	556.0	555.1
5°	556.0	553.7	548.3	552.3	551.4
7.5°	551.9	549.6	542.9	545.6	544.2
10°	546.5	543.3	535.2	535.7	533.4
12.5°	538.8	535.2	524.8	524.4	521.7
15°	530.3	525.3	512.7	510.4	507.3
17.5°	519.9	514.5	498.7	494.2	489.7
20°	508.2	500.9	483.8	477.9	472.5
22.5°	495.1	486.5	468.0	460.4	455.4
25°	482.5	471.2	450.4	441.0	436.0
27.5°	467.1	455.0	432.4	419.8	412.1
30°	451.3	437.8	412.6	397.2	390.0
32.5°	435.6	419.8	392.7	375.6	367.9
35°	417.5	401.3	373.3	354.0	345.8
37.5°	399.5	381.9	352.6	331.0	321.0
40°	382.4	362.5	330.5	307.1	296.7
42.5°	363.0	343.1	309.8	283.6	274.6
45°	343.1	322.8	288.1	262.4	251.6
47.5°	323.7	301.2	266.9	239.0	229.5
50°	302.1	280.9	244.4	216.4	206.1
52.5°	282.7	259.3	223.2	193.9	184.9
55°	260.6	238.5	200.2	174.0	165.0
57.5°	240.8	216.9	178.1	153.3	145.6
60°	220.0	195.2	157.8	133.5	125.8
62.5°	199.3	174.5	137.1	114.5	106.4
65°	178.1	153.3	118.1	96.0	91.1
67.5°	156.9	131.7	97.4	80.7	75.3
70°	136.2	111.8	80.3	64.5	59.5
72.5°	115.4	91.5	63.6	51.4	50.0
75°	94.2	72.6	47.8	43.3	42.4
77.5°	74.8	55.0	37.4	34.7	33.8
80°	56.4	37.9	28.4	27.1	26.2
82.5°	38.8	23.4	20.3	18.9	18.9
85°	23.9	14.0	12.6	11.7	11.7
87.5°	10.8	5.9	5.9	5.4	5.0
90°	1.2	12.7	27.7	32.3	34.6
92.5°	34.6	41.6	48.5	51.9	49.6
95°	68.1	76.2	85.4	90.0	90.0
97.5°	112.0	117.7	124.7	130.4	129.3
100°	157.0	163.9	169.7	173.2	175.5
102.5°	208.9	212.4	220.5	224.0	222.8
105°	259.7	262.1	272.4	272.4	274.7
107.5°	319.8	320.9	325.5	329.0	327.9
110°	375.2	377.5	379.8	384.4	382.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	432.9	434.1	434.1	439.8	439.8
115°	490.6	494.1	491.8	492.9	491.8
117.5°	549.5	550.7	548.3	548.3	544.9
120°	603.8	610.7	604.9	603.8	601.4
122.5°	660.3	664.9	662.6	659.2	655.7
125°	718.0	721.5	719.2	714.6	710.0
127.5°	771.1	778.1	775.8	768.8	764.2
130°	824.2	833.5	830.0	825.4	817.3
132.5°	877.4	886.6	884.3	878.5	872.7
135°	931.6	938.5	937.4	932.8	930.5
137.5°	981.2	987.0	990.5	984.7	981.2
140°	1033.2	1039.0	1040.1	1039.0	1030.9
142.5°	1080.5	1086.3	1088.6	1087.5	1081.7
145°	1130.2	1132.5	1135.9	1134.8	1130.2
147.5°	1172.9	1177.5	1181.0	1181.0	1174.0
150°	1217.9	1220.2	1222.5	1222.5	1215.6
152.5°	1254.8	1258.3	1259.5	1261.8	1256.0
155°	1294.1	1294.1	1295.2	1299.9	1291.8
157.5°	1327.6	1326.4	1327.6	1332.2	1325.3
160°	1358.7	1356.4	1356.4	1362.2	1357.6
162.5°	1386.4	1383.0	1384.1	1389.9	1381.8
165°	1409.5	1406.1	1406.1	1413.0	1404.9
167.5°	1429.2	1424.5	1425.7	1432.6	1425.7
170°	1445.3	1440.7	1440.7	1448.8	1440.7
172.5°	1458.0	1453.4	1453.4	1460.3	1452.2
175°	1466.1	1461.5	1461.5	1468.4	1460.3
177.5°	1470.7	1466.1	1466.1	1473.0	1464.9
180°	1469.6	1469.6	1469.6	1469.6	1469.6

(END OF REPORT)