

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: P1012259

Luminaire Tested: S123RDIP-B1000D805UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012259
REPORT IS A COMBINATION OF REPORTS P992918 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D805UB50-4F0-XX-W2A-F4
Description: Define 3 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

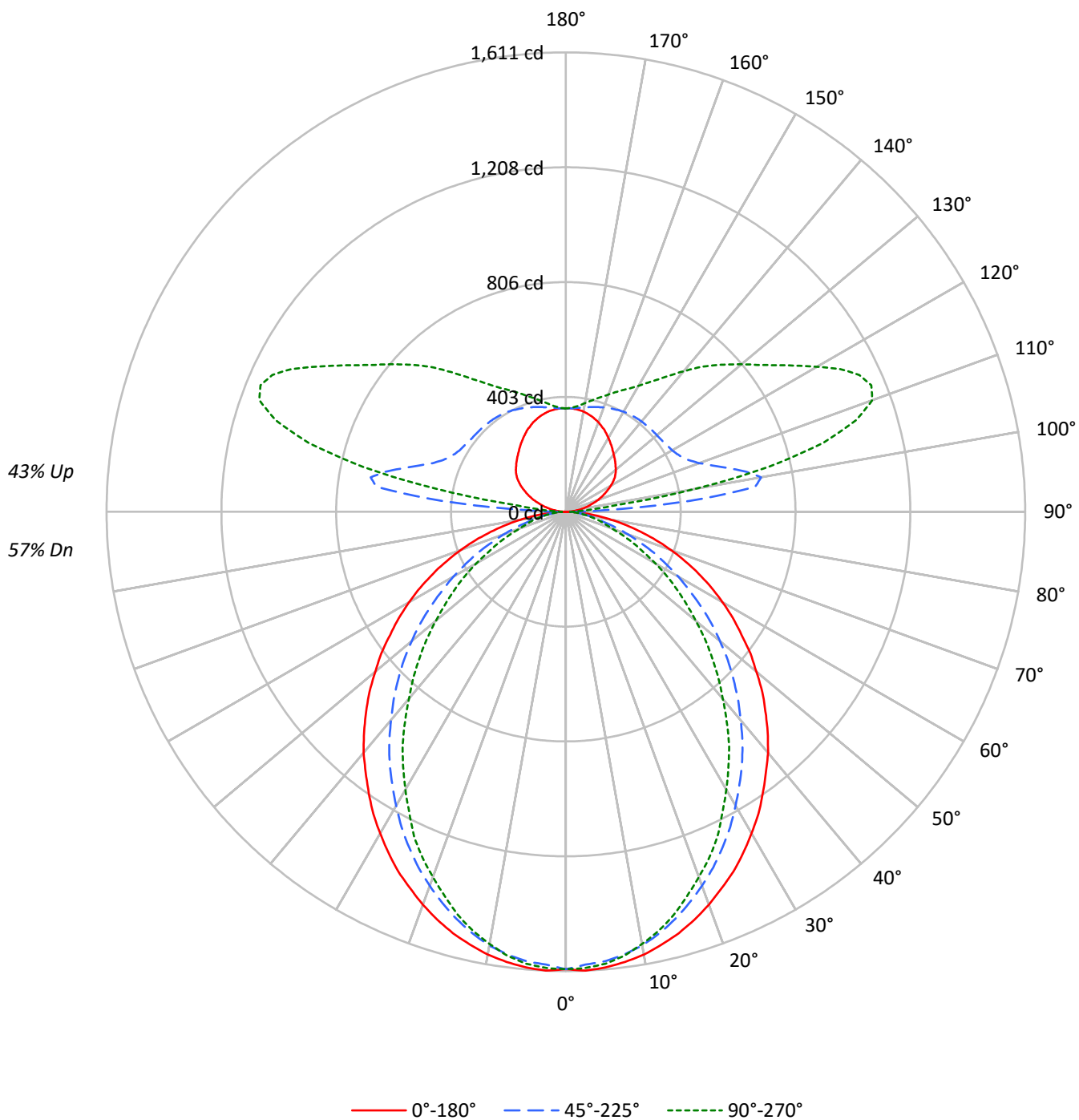
Lumens per Lamp: N/A
Luminaire Lumens: 6360.3 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63
1	100	96	92	88	93	89	86	83	77	75	72	66	64	63	56	55	54
2	91	84	78	73	85	78	73	69	68	64	61	58	56	53	50	48	46
3	83	74	67	61	77	69	63	58	60	55	51	52	48	45	44	42	39
4	76	66	58	52	71	62	55	49	54	48	44	47	42	39	40	37	34
5	70	59	51	45	65	55	48	43	48	43	38	42	38	34	36	33	30
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	29	27
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24
8	56	44	36	31	52	41	34	29	36	31	27	32	27	24	28	24	21
9	52	40	32	27	49	38	31	26	33	28	24	29	25	22	26	22	19
10	49	37	29	25	45	35	28	24	31	25	22	27	23	20	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17266	17266	17266
5°	17295	16656	16611
10°	17159	16030	15714
15°	16936	15255	14731
20°	16643	14414	13633
25°	16343	13539	12593
30°	15956	12608	11363
35°	15558	11694	10244
40°	15183	10701	9006
45°	14704	9730	7894
50°	14175	8694	6743
55°	13626	7584	5687
60°	13101	6446	4616
65°	12423	5280	3603
70°	11570	3992	2574
75°	10343	2703	2040
80°	8827	1880	1432
85°	6628	1014	749

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14704 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.8	2.4
10°-20°	419.5	6.6
20°-30°	604.0	9.5
30°-40°	680.2	10.7
40°-50°	650.6	10.2
50°-60°	532.6	8.4
60°-70°	359.1	5.6
70°-80°	180.1	2.8
80°-90°	49.1	0.8
90°-100°	206.1	3.2
100°-110°	576.0	9.1
110°-120°	561.7	8.8
120°-130°	447.2	7.0
130°-140°	353.1	5.6
140°-150°	263.4	4.1
150°-160°	183.8	2.9
160°-170°	107.9	1.7
170°-180°	35.1	0.6
0°-30°	1174.3	18.5
0°-40°	1854.5	29.2
0°-60°	3037.7	47.8
0°-90°	3626.0	57.0
90°-120°	1343.8	21.1
90°-150°	2407.5	37.9
90°-180°	2734.0	43.0
0°-180°	6360.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1582	1594	1591	152
15°	1530	1516	1479	1473	1464	431
25°	1392	1360	1300	1272	1258	640
35°	1205	1158	1077	1021	998	754
45°	990	932	831	757	726	764
55°	752	688	578	502	476	674
65°	514	442	341	277	263	509
75°	272	210	138	125	122	290
85°	69	40	36	34	34	76
90°	2	9	18	21	21	6
95°	25	81	435	127	85	26
105°	85	126	590	1032	934	90
115°	150	188	452	990	1136	149
125°	209	247	421	764	896	186
135°	245	293	416	629	726	189
145°	280	320	410	516	568	175
155°	318	343	397	452	471	146
165°	347	357	380	403	410	98
175°	362	362	365	370	369	34
180°	363	363	363	363	363	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1610.6	1605.4	1589.8	1604.1	1601.5
5°	1604.1	1597.6	1582.0	1593.7	1591.1
7.5°	1592.4	1585.9	1566.4	1574.2	1570.3
10°	1576.8	1567.7	1544.3	1545.6	1539.1
12.5°	1554.7	1544.3	1514.4	1513.1	1505.2
15°	1530.0	1515.7	1479.2	1472.7	1463.6
17.5°	1500.0	1484.4	1438.9	1425.9	1412.9
20°	1466.2	1445.4	1396.0	1379.1	1363.4
22.5°	1428.5	1403.8	1350.4	1328.3	1314.0
25°	1392.1	1359.5	1299.7	1272.4	1258.1
27.5°	1347.8	1312.7	1247.7	1211.2	1189.1
30°	1302.3	1263.3	1190.4	1146.2	1125.4
32.5°	1256.8	1211.2	1133.2	1083.7	1061.6
35°	1204.7	1157.9	1077.2	1021.3	997.9
37.5°	1152.7	1101.9	1017.4	954.9	926.3
40°	1103.2	1046.0	953.6	886.0	856.1
42.5°	1047.3	990.1	893.8	818.3	792.3
45°	990.1	931.5	831.3	757.2	726.0
47.5°	934.1	869.1	770.2	689.5	662.2
50°	871.7	810.5	705.1	624.5	594.6
52.5°	815.7	748.1	644.0	559.4	533.4
55°	752.0	688.2	577.6	502.2	476.2
57.5°	694.7	625.8	513.9	442.3	420.2
60°	634.9	563.3	455.3	385.1	363.0
62.5°	575.0	503.5	395.5	330.5	307.0
65°	513.9	442.3	340.9	277.1	262.8
67.5°	452.7	379.9	281.0	232.9	217.3
70°	392.9	322.6	231.6	186.0	171.7
72.5°	333.1	264.1	183.4	148.3	144.4
75°	271.9	209.5	137.9	124.9	122.3
77.5°	216.0	158.7	108.0	100.2	97.6
80°	162.6	109.3	82.0	78.1	75.5
82.5°	111.9	67.7	58.5	54.6	54.6
85°	69.0	40.3	36.4	33.8	33.8
87.5°	31.2	16.9	16.9	15.6	14.3
90°	1.5	8.8	18.4	20.6	21.3
92.5°	11.0	44.0	136.5	46.6	38.9
95°	25.0	81.1	435.3	127.0	85.2
97.5°	39.6	92.9	669.5	319.4	174.7
100°	54.3	102.4	695.2	668.0	460.3
102.5°	69.7	113.4	647.5	894.6	729.0
105°	85.2	125.9	590.2	1032.2	933.8
107.5°	101.3	140.6	539.6	1092.8	1067.4
110°	118.9	155.6	497.7	1094.6	1143.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	135.1	171.4	469.8	1053.1	1159.2
115°	150.5	187.6	451.5	990.0	1135.7
117.5°	165.9	203.0	439.0	922.4	1084.3
120°	182.1	218.4	430.9	858.6	1016.8
122.5°	196.0	233.1	425.8	808.3	953.6
125°	209.2	247.0	421.4	763.5	895.6
127.5°	219.5	260.2	419.2	726.8	845.7
130°	229.1	272.0	417.0	693.0	804.6
132.5°	236.4	282.6	416.3	661.4	764.2
135°	245.2	292.6	415.5	628.8	726.1
137.5°	253.3	300.6	414.1	598.0	685.7
140°	261.4	308.0	413.3	567.8	643.1
142.5°	270.2	314.6	411.9	540.3	603.5
145°	279.7	320.4	410.4	515.8	567.5
147.5°	289.2	326.6	408.2	496.6	536.7
150°	298.8	331.8	405.2	479.8	510.2
152.5°	308.3	337.4	401.6	465.1	488.2
155°	317.9	342.8	397.2	451.5	470.6
157.5°	325.2	347.6	393.5	438.3	453.7
160°	334.0	351.6	389.1	426.2	437.5
162.5°	340.6	354.6	384.7	414.8	422.9
165°	347.2	357.2	380.3	403.4	410.4
167.5°	352.4	359.4	375.9	393.5	397.9
170°	356.8	360.4	371.5	384.7	386.9
172.5°	359.7	361.5	367.8	377.0	376.6
175°	361.9	362.3	364.9	370.0	369.3
177.5°	363.4	362.7	362.7	365.6	364.1
180°	362.7	362.7	362.7	362.7	362.7

(END OF REPORT)