

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: P1012206

Luminaire Tested: S123RDIP-B1000D585UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1012206
REPORT IS A COMBINATION OF REPORTS P992843 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIP-B1000D585UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

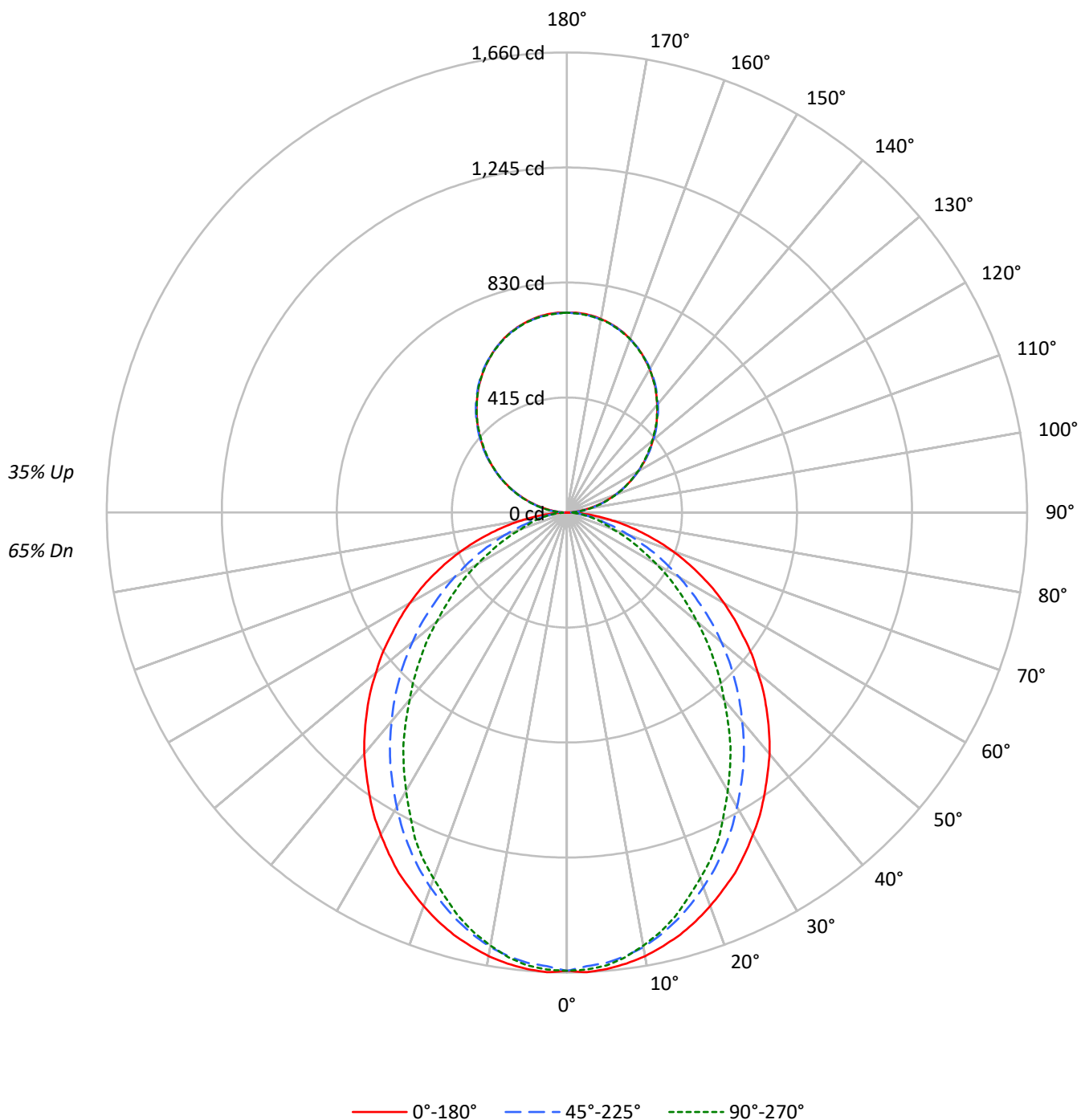
Lumens per Lamp: N/A
Luminaire Lumens: 5736.0 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	102	97	94	90	95	92	88	85	81	79	76	72	70	68	63	61	60
2	93	86	79	74	87	81	75	71	72	68	64	63	60	57	56	53	51
3	85	76	68	62	80	71	65	60	64	58	54	56	52	49	50	47	44
4	78	67	59	53	73	64	57	51	57	51	47	51	46	42	45	41	38
5	72	60	52	46	67	57	50	44	51	45	41	46	41	37	40	37	34
6	66	54	46	40	62	51	44	39	46	40	36	41	36	33	37	33	30
7	62	49	41	36	58	47	39	34	42	36	32	38	33	29	34	30	27
8	57	45	37	32	54	43	36	31	39	33	28	35	30	26	31	27	24
9	53	41	34	28	50	39	32	27	35	30	26	32	27	24	29	25	22
10	50	38	31	26	47	36	29	25	33	27	23	30	25	22	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17800	17800	17800
5°	17829	17170	17124
10°	17689	16525	16199
15°	17460	15727	15186
20°	17158	14859	14055
25°	16848	13958	12981
30°	16449	12998	11714
35°	16039	12056	10560
40°	15652	11032	9284
45°	15159	10031	8138
50°	14612	8963	6950
55°	14046	7819	5863
60°	13505	6646	4759
65°	12807	5442	3714
70°	11927	4115	2654
75°	10662	2788	2104
80°	9099	1937	1475
85°	6829	1047	774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15159 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.7
10°-20°	432.5	7.5
20°-30°	622.7	10.9
30°-40°	701.2	12.2
40°-50°	670.7	11.7
50°-60°	549.1	9.6
60°-70°	370.2	6.5
70°-80°	185.7	3.2
80°-90°	50.1	0.9
90°-100°	46.4	0.8
100°-110°	140.5	2.5
110°-120°	239.2	4.2
120°-130°	314.7	5.5
130°-140°	353.8	6.2
140°-150°	347.8	6.1
150°-160°	292.8	5.1
160°-170°	194.9	3.4
170°-180°	68.3	1.2
0°-30°	1210.6	21.1
0°-40°	1911.8	33.3
0°-60°	3131.6	54.6
0°-90°	3737.5	65.2
90°-120°	426.2	7.4
90°-150°	1442.5	25.1
90°-180°	1998.0	34.8
0°-180°	5736.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1654	1647	1631	1643	1640	157
15°	1577	1562	1525	1518	1509	444
25°	1435	1402	1340	1312	1297	660
35°	1242	1194	1110	1053	1029	777
45°	1021	960	857	781	748	788
55°	775	710	596	518	491	695
65°	530	456	351	286	271	524
75°	280	216	142	129	126	299
85°	71	42	38	35	35	78
90°	1	6	14	16	17	7
95°	33	37	42	44	44	37
105°	128	129	134	134	135	136
115°	241	242	241	242	241	238
125°	352	354	353	351	348	314
135°	457	461	460	458	457	352
145°	555	556	558	557	555	346
155°	635	635	636	638	634	292
165°	692	690	690	694	690	195
175°	720	717	717	721	717	68
180°	721	721	721	721	721	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.7	1653.7	1653.7	1653.7	1653.7
2.5°	1660.4	1655.0	1638.9	1653.7	1651.0
5°	1653.7	1647.0	1630.9	1643.0	1640.3
7.5°	1641.6	1634.9	1614.8	1622.9	1618.8
10°	1625.5	1616.1	1592.0	1593.3	1586.6
12.5°	1602.7	1592.0	1561.2	1559.8	1551.8
15°	1577.3	1562.5	1524.9	1518.2	1508.8
17.5°	1546.4	1530.3	1483.4	1470.0	1456.5
20°	1511.5	1490.1	1439.1	1421.7	1405.6
22.5°	1472.6	1447.2	1392.2	1369.4	1354.6
25°	1435.1	1401.6	1339.9	1311.7	1296.9
27.5°	1389.5	1353.3	1286.2	1248.7	1225.9
30°	1342.5	1302.3	1227.2	1181.6	1160.1
32.5°	1295.6	1248.7	1168.2	1117.2	1094.4
35°	1242.0	1193.7	1110.5	1052.8	1028.7
37.5°	1188.3	1136.0	1048.8	984.4	954.9
40°	1137.3	1078.3	983.1	913.4	882.5
42.5°	1079.7	1020.7	921.4	843.6	816.8
45°	1020.7	960.3	857.0	780.6	748.4
47.5°	963.0	895.9	794.0	710.8	682.7
50°	898.6	835.6	726.9	643.8	612.9
52.5°	840.9	771.2	663.9	576.7	549.9
55°	775.2	709.5	595.5	517.7	490.9
57.5°	716.2	645.1	529.8	456.0	433.2
60°	654.5	580.7	469.4	397.0	374.2
62.5°	592.8	519.0	407.7	340.7	316.5
65°	529.8	456.0	351.4	285.7	270.9
67.5°	466.7	391.6	289.7	240.1	224.0
70°	405.0	332.6	238.7	191.8	177.0
72.5°	343.3	272.3	189.1	152.9	148.9
75°	280.3	215.9	142.2	128.8	126.1
77.5°	222.6	163.6	111.3	103.3	100.6
80°	167.6	112.7	84.5	80.5	77.8
82.5°	115.3	69.7	60.4	56.3	56.3
85°	71.1	41.6	37.6	34.9	34.9
87.5°	32.2	17.4	17.4	16.1	14.8
90°	0.6	6.2	13.6	15.9	17.0
92.5°	17.0	20.4	23.8	25.5	24.4
95°	33.4	37.4	41.9	44.2	44.2
97.5°	55.0	57.8	61.2	64.0	63.5
100°	77.1	80.5	83.3	85.0	86.1
102.5°	102.6	104.3	108.2	109.9	109.4
105°	127.5	128.6	133.7	133.7	134.8
107.5°	156.9	157.5	159.8	161.5	160.9
110°	184.1	185.3	186.4	188.7	187.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	212.5	213.0	213.0	215.9	215.9
115°	240.8	242.5	241.4	241.9	241.4
117.5°	269.7	270.3	269.1	269.1	267.4
120°	296.3	299.7	296.9	296.3	295.2
122.5°	324.1	326.4	325.2	323.5	321.8
125°	352.4	354.1	353.0	350.7	348.4
127.5°	378.5	381.9	380.7	377.3	375.1
130°	404.5	409.1	407.4	405.1	401.1
132.5°	430.6	435.1	434.0	431.2	428.3
135°	457.2	460.6	460.1	457.8	456.7
137.5°	481.6	484.4	486.1	483.3	481.6
140°	507.1	509.9	510.5	509.9	506.0
142.5°	530.3	533.2	534.3	533.7	530.9
145°	554.7	555.8	557.5	556.9	554.7
147.5°	575.6	577.9	579.6	579.6	576.2
150°	597.7	598.9	600.0	600.0	596.6
152.5°	615.9	617.6	618.1	619.3	616.4
155°	635.1	635.1	635.7	638.0	634.0
157.5°	651.6	651.0	651.6	653.8	650.4
160°	666.9	665.7	665.7	668.6	666.3
162.5°	680.5	678.8	679.3	682.2	678.2
165°	691.8	690.1	690.1	693.5	689.5
167.5°	701.4	699.2	699.7	703.1	699.7
170°	709.4	707.1	707.1	711.1	707.1
172.5°	715.6	713.3	713.3	716.7	712.8
175°	719.6	717.3	717.3	720.7	716.7
177.5°	721.8	719.6	719.6	723.0	719.0
180°	721.3	721.3	721.3	721.3	721.3

(END OF REPORT)