

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: P1010375

Luminaire Tested: S122RDIP-B865D925UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010375
REPORT IS A COMBINATION OF REPORTS P988800 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B865D925UB30-4F0-XX-W2A-F4
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

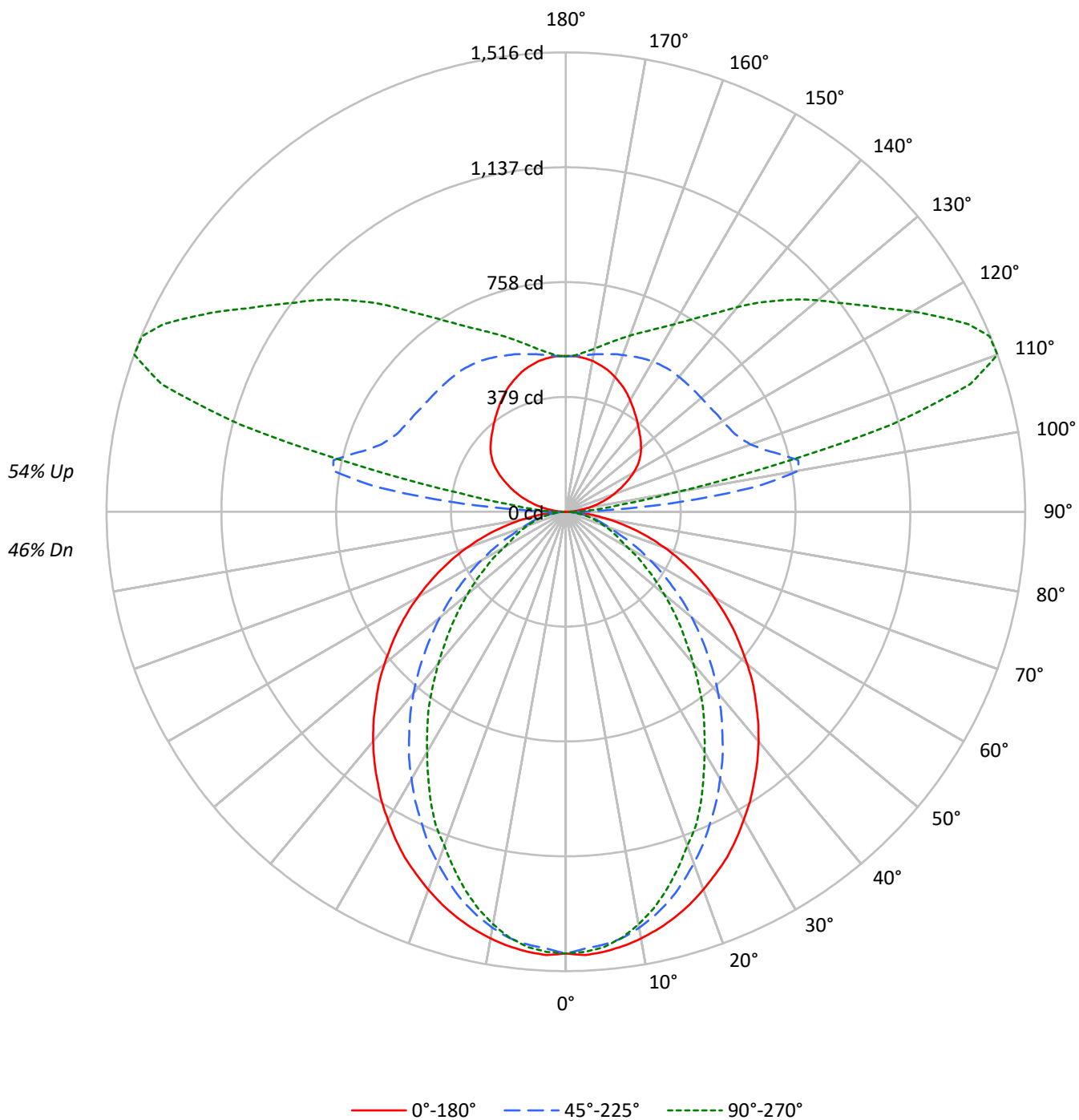
Lumens per Lamp: N/A
Luminaire Lumens: 6583.1 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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

TEST NUMBER: P1010375

CATALOG NUMBER: S122RDIP-B865D925UB30-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1010375

CATALOG NUMBER: S122RDIP-B865D925UB30-4F0-XX-W2A-F4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46		
1	97	93	89	86	89	86	82	80	72	69	67	59	57	56	47	46	45	39		
2	89	82	76	71	81	75	70	66	63	60	56	52	49	47	42	40	38	34		
3	81	72	65	60	74	67	61	56	56	52	48	46	43	40	37	35	33	29		
4	75	64	57	51	68	59	53	48	50	45	41	42	38	35	34	31	29	25		
5	69	57	50	44	63	53	46	41	45	40	36	38	34	31	30	28	26	22		
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20		
7	59	47	39	34	54	43	37	32	37	32	28	31	27	24	26	23	20	18		
8	54	43	35	30	50	40	33	28	34	29	25	29	25	22	24	21	18	16		
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	17	15		
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15	13		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23074	23074	23074
5°	23112	21953	21790
10°	22884	20821	20133
15°	22570	19484	18246
20°	22154	17965	16272
25°	21727	16405	14465
30°	21155	14887	12491
35°	20594	13356	10797
40°	20025	11853	9052
45°	19361	10300	7531
50°	18676	8803	6131
55°	17962	7306	4867
60°	17133	5843	3682
65°	16179	4454	2993
70°	15028	3231	2381
75°	13577	2464	1818
80°	11481	1668	1219
85°	8009	765	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19361 cd/sqm

TEST NUMBER: P1010375

CATALOG NUMBER: S122RDIP-B865D925UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	2.1
10°-20°	375.1	5.7
20°-30°	526.6	8.0
30°-40°	574.0	8.7
40°-50°	527.5	8.0
50°-60°	414.3	6.3
60°-70°	269.7	4.1
70°-80°	138.8	2.1
80°-90°	38.7	0.6
90°-100°	208.3	3.2
100°-110°	704.1	10.7
110°-120°	740.1	11.2
120°-130°	608.6	9.2
130°-140°	489.0	7.4
140°-150°	369.4	5.6
150°-160°	259.7	3.9
160°-170°	152.9	2.3
170°-180°	49.7	0.8
0°-30°	1038.2	15.8
0°-40°	1612.2	24.5
0°-60°	2554.0	38.8
0°-90°	3001.3	45.6
90°-120°	1652.4	25.1
90°-150°	3119.5	47.4
90°-180°	3582.0	54.4
0°-180°	6583.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1458	1451	1434	1446	1442	138
15°	1386	1372	1327	1302	1289	391
25°	1258	1216	1129	1075	1055	579
35°	1084	1017	901	818	789	679
45°	886	798	660	566	534	685
55°	674	571	429	350	324	602
65°	455	348	230	185	181	451
75°	243	150	106	96	95	257
85°	57	29	25	25	25	65
90°	1	13	34	32	33	5
95°	35	85	387	146	113	36
105°	120	182	732	1309	1113	128
115°	212	268	612	1264	1465	211
125°	296	351	589	1024	1188	263
135°	348	415	582	861	985	269
145°	397	456	579	719	786	249
155°	452	488	562	636	661	208
165°	492	507	538	571	580	139
175°	513	513	518	524	523	49
180°	514	514	514	514	514	

TEST NUMBER: P1010375

CATALOG NUMBER: S122RDIP-B865D925UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1464.3	1457.7	1443.2	1456.4	1453.8
5°	1457.7	1451.1	1434.0	1445.9	1441.9
7.5°	1445.9	1437.9	1419.5	1424.7	1418.1
10°	1430.0	1420.8	1394.4	1390.4	1382.5
12.5°	1410.2	1398.4	1362.7	1354.8	1340.3
15°	1386.5	1372.0	1327.1	1302.1	1288.9
17.5°	1358.8	1337.7	1282.3	1253.2	1232.1
20°	1327.1	1300.7	1234.8	1201.8	1172.8
22.5°	1292.8	1262.5	1186.0	1141.1	1121.3
25°	1258.5	1216.3	1129.2	1075.2	1055.4
27.5°	1217.6	1172.8	1076.5	1014.5	984.1
30°	1174.1	1124.0	1018.4	951.1	915.5
32.5°	1131.9	1071.2	963.0	883.9	850.9
35°	1084.4	1017.1	901.0	817.9	788.9
37.5°	1038.2	965.7	843.0	751.9	719.0
40°	989.4	910.3	782.3	688.6	654.3
42.5°	939.3	854.8	721.6	624.0	591.0
45°	886.5	798.1	659.6	565.9	534.3
47.5°	836.4	742.7	600.2	506.6	477.6
50°	781.0	687.3	542.2	451.2	423.5
52.5°	726.9	627.9	486.8	399.7	374.7
55°	674.1	571.2	428.7	349.6	324.5
57.5°	620.0	514.5	377.3	303.4	282.3
60°	564.6	459.1	323.2	255.9	234.8
62.5°	510.5	405.0	277.0	213.7	203.2
65°	455.1	348.3	229.5	184.7	180.7
67.5°	402.4	295.5	184.7	162.3	158.3
70°	347.0	244.1	153.0	139.8	134.6
72.5°	294.2	196.6	128.0	117.4	114.8
75°	242.7	150.4	105.5	96.3	95.0
77.5°	191.3	106.9	83.1	77.8	75.2
80°	143.8	76.5	63.3	58.0	58.0
82.5°	100.3	51.4	43.5	40.9	40.9
85°	56.7	29.0	25.1	25.1	25.1
87.5°	21.1	10.6	10.6	9.2	9.2
90°	1.0	13.4	33.6	32.1	32.6
92.5°	14.8	47.0	152.1	70.2	60.3
95°	34.6	84.9	387.3	146.2	112.6
97.5°	51.4	112.2	631.3	293.5	188.7
100°	76.1	137.4	780.5	584.4	353.7
102.5°	98.8	160.0	785.4	988.0	689.6
105°	120.5	181.8	732.1	1308.6	1113.4
107.5°	144.2	203.6	682.7	1424.6	1399.0
110°	168.0	225.8	649.1	1405.9	1515.5

TEST NUMBER: P1010375

CATALOG NUMBER: S122RDIP-B865D925UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	189.7	247.0	627.4	1342.2	1513.6
115°	212.4	268.2	612.5	1264.1	1465.1
117.5°	236.1	289.5	604.6	1189.5	1392.0
120°	257.9	310.2	597.7	1122.8	1321.9
122.5°	278.6	331.5	593.8	1071.0	1248.8
125°	296.4	350.8	588.8	1024.0	1188.5
127.5°	311.2	369.0	585.9	984.0	1132.2
130°	324.1	385.3	583.9	943.5	1085.8
132.5°	335.9	401.1	582.9	901.5	1037.4
135°	347.8	415.0	581.9	860.6	985.0
137.5°	358.6	426.8	581.9	819.0	934.6
140°	371.5	437.6	580.9	782.4	882.2
142.5°	384.3	446.6	580.9	747.4	829.9
145°	397.2	456.4	578.9	718.8	786.4
147.5°	411.0	464.4	576.0	693.6	747.9
150°	424.8	472.2	573.0	671.8	714.3
152.5°	438.7	480.2	568.1	653.5	685.6
155°	451.5	487.6	562.2	635.8	660.9
157.5°	462.4	493.5	556.2	619.0	639.2
160°	473.2	499.4	550.3	602.2	618.5
162.5°	484.1	503.8	545.4	586.3	598.7
165°	492.0	506.8	538.4	571.0	579.9
167.5°	498.9	509.8	532.5	557.2	562.2
170°	505.8	511.3	527.6	544.4	546.3
172.5°	509.8	512.8	521.6	533.0	533.5
175°	512.8	513.2	517.7	524.1	522.6
177.5°	514.7	513.7	513.7	517.7	514.7
180°	513.7	513.7	513.7	513.7	513.7

(END OF REPORT)