

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: P1009800

Luminaire Tested: S122RDIP-B1005D925UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009800
REPORT IS A COMBINATION OF REPORTS P988016 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B1005D925UB50-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

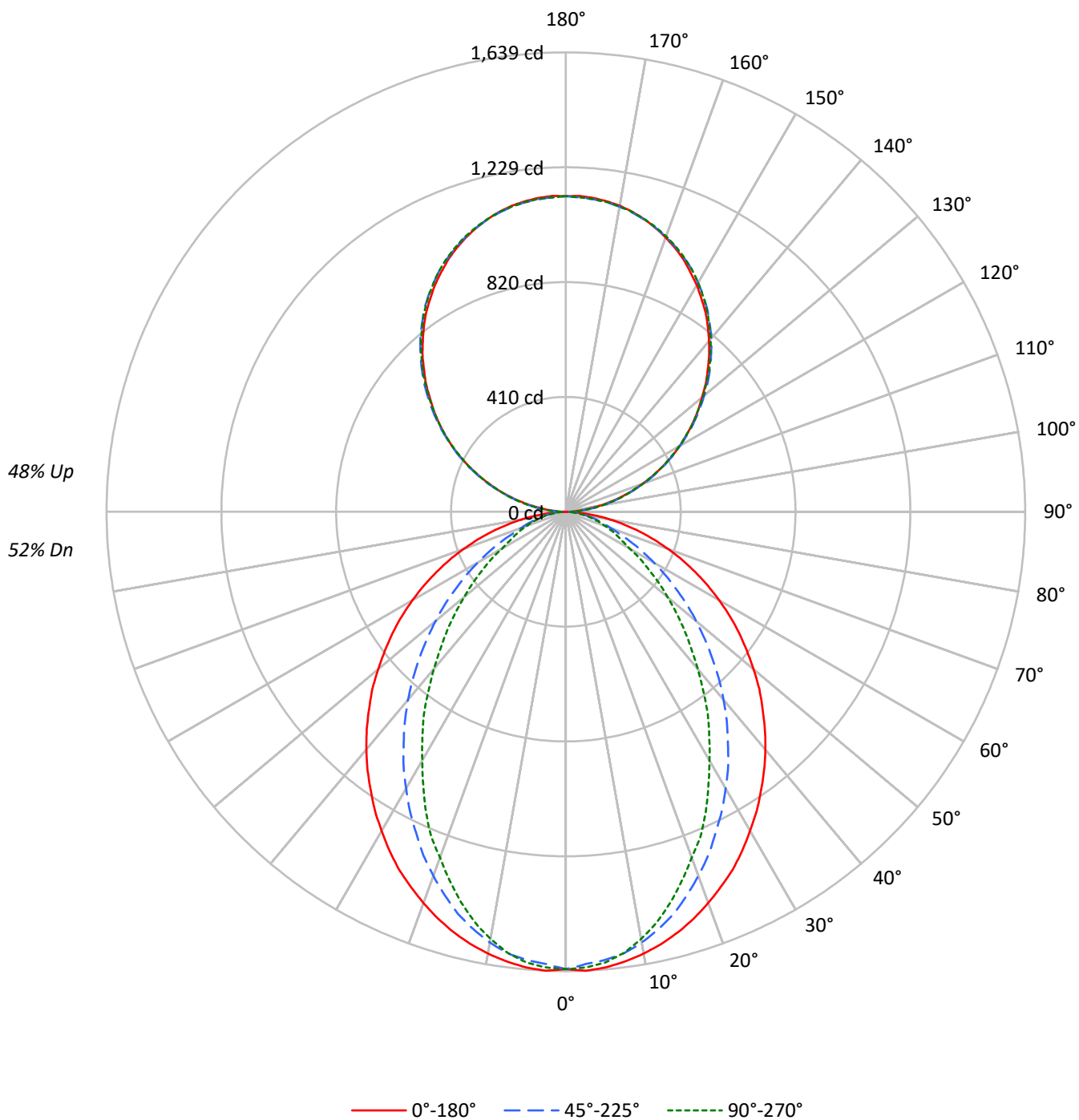
Lumens per Lamp: N/A
Luminaire Lumens: 6507.0 lumens
Efficiency: N/A
Efficacy: 72.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	108	108	108	108	99	99	99	99		84	84	84		70	70	70		58	58	58
1	99	94	91	87	91	88	84	81		75	72	70		63	61	60		52	51	50
2	90	83	77	72	83	77	72	68		66	62	59		56	53	51		46	44	43
3	83	73	66	61	76	68	62	57		59	54	50		50	46	43		41	39	37
4	76	65	58	52	70	61	54	49		52	47	43		45	41	38		37	34	32
5	70	59	51	45	64	55	48	42		47	42	38		40	36	33		34	31	28
6	64	53	45	39	60	49	42	37		43	37	33		37	32	29		31	28	25
7	60	48	40	35	55	45	38	33		39	33	29		33	29	26		28	25	23
8	56	43	36	31	51	41	34	29		36	30	26		31	26	23		26	23	20
9	52	40	32	28	48	37	31	26		33	27	24		28	24	21		24	21	19
10	48	37	30	25	45	34	28	24		30	25	21		26	22	19		23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25830	25830	25830
5°	25872	24574	24392
10°	25617	23307	22538
15°	25266	21811	20425
20°	24800	20110	18215
25°	24322	18365	16192
30°	23681	16665	13984
35°	23054	14951	12087
40°	22417	13268	10134
45°	21674	11530	8430
50°	20905	9854	6862
55°	20107	8179	5449
60°	19178	6541	4123
65°	18112	4988	3351
70°	16820	3618	2664
75°	15199	2759	2035
80°	12854	1868	1367
85°	8970	857	661

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21674 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	2.4
10°-20°	419.8	6.5
20°-30°	589.4	9.1
30°-40°	642.5	9.9
40°-50°	590.5	9.1
50°-60°	463.8	7.1
60°-70°	301.9	4.6
70°-80°	155.4	2.4
80°-90°	42.9	0.7
90°-100°	69.6	1.1
100°-110°	221.4	3.4
110°-120°	378.9	5.8
120°-130°	498.3	7.7
130°-140°	559.3	8.6
140°-150°	548.5	8.4
150°-160°	460.1	7.1
160°-170°	305.1	4.7
170°-180°	106.6	1.6
0°-30°	1162.2	17.9
0°-40°	1804.7	27.7
0°-60°	2859.0	43.9
0°-90°	3359.2	51.6
90°-120°	669.9	10.3
90°-150°	2276.0	35.0
90°-180°	3148.0	48.4
0°-180°	6507.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1632	1632	1632	1632	1632	
5°	1632	1624	1605	1618	1614	155
15°	1552	1536	1486	1458	1443	437
25°	1409	1362	1264	1204	1181	648
35°	1214	1139	1009	916	883	760
45°	992	893	738	634	598	766
55°	755	639	480	391	363	674
65°	510	390	257	207	202	505
75°	272	168	118	108	106	287
85°	64	32	28	28	28	73
90°	1	12	33	31	32	6
95°	49	59	61	61	59	55
105°	204	207	209	211	211	216
115°	380	386	384	383	380	376
125°	553	562	559	556	555	494
135°	715	726	728	727	724	553
145°	868	875	881	882	878	543
155°	993	996	999	1003	1000	457
165°	1080	1079	1079	1086	1081	305
175°	1124	1121	1119	1126	1120	107
180°	1126	1126	1126	1126	1126	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.8	1631.8	1631.8	1631.8	1631.8
2.5°	1639.2	1631.8	1615.6	1630.3	1627.4
5°	1631.8	1624.4	1605.2	1618.5	1614.1
7.5°	1618.5	1609.6	1589.0	1594.9	1587.5
10°	1600.8	1590.4	1560.9	1556.5	1547.6
12.5°	1578.6	1565.3	1525.5	1516.6	1500.4
15°	1552.1	1535.8	1485.6	1457.5	1442.8
17.5°	1521.0	1497.4	1435.4	1402.9	1379.3
20°	1485.6	1456.1	1382.2	1345.3	1312.8
22.5°	1447.2	1413.2	1327.6	1277.4	1255.2
25°	1408.8	1361.6	1264.1	1203.5	1181.4
27.5°	1363.0	1312.8	1205.0	1135.6	1101.6
30°	1314.3	1258.2	1140.0	1064.7	1024.9
32.5°	1267.0	1199.1	1078.0	989.4	952.5
35°	1213.9	1138.6	1008.6	915.6	883.1
37.5°	1162.2	1081.0	943.6	841.7	804.8
40°	1107.6	1019.0	875.7	770.9	732.5
42.5°	1051.4	956.9	807.8	698.5	661.6
45°	992.4	893.4	738.4	633.5	598.1
47.5°	936.3	831.4	671.9	567.1	534.6
50°	874.2	769.4	606.9	505.0	474.0
52.5°	813.7	702.9	544.9	447.5	419.4
55°	754.6	639.4	479.9	391.3	363.3
57.5°	694.1	575.9	422.3	339.7	316.0
60°	632.0	513.9	361.8	286.5	262.9
62.5°	571.5	453.4	310.1	239.2	227.4
65°	509.5	389.9	257.0	206.7	202.3
67.5°	450.4	330.8	206.7	181.6	177.2
70°	388.4	273.2	171.3	156.5	150.6
72.5°	329.3	220.0	143.2	131.4	128.5
75°	271.7	168.3	118.1	107.8	106.3
77.5°	214.1	119.6	93.0	87.1	84.2
80°	161.0	85.7	70.9	65.0	65.0
82.5°	112.2	57.6	48.7	45.8	45.8
85°	63.5	32.5	28.1	28.1	28.1
87.5°	23.6	11.8	11.8	10.3	10.3
90°	1.0	12.4	33.3	31.4	32.3
92.5°	20.9	28.5	29.5	30.4	30.4
95°	49.4	58.9	60.8	60.8	58.9
97.5°	82.7	91.2	95.0	95.0	95.0
100°	120.7	128.3	131.1	131.1	130.2
102.5°	160.6	166.3	170.1	171.0	170.1
105°	204.3	207.1	209.0	210.9	210.9
107.5°	248.0	251.8	251.8	252.7	248.0
110°	289.8	295.5	295.5	295.5	292.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.4	341.1	340.1	337.3	335.4
115°	380.0	385.8	383.9	382.9	380.0
117.5°	424.7	432.3	427.6	424.7	421.9
120°	469.4	477.0	469.4	469.4	466.5
122.5°	510.2	519.7	515.0	512.1	510.2
125°	553.0	561.5	558.7	555.8	554.9
127.5°	594.8	605.2	601.4	597.6	594.8
130°	633.7	646.1	644.2	642.3	638.5
132.5°	677.4	686.9	687.9	683.1	680.3
135°	715.4	725.9	727.8	726.8	724.0
137.5°	757.2	765.8	767.7	766.8	762.9
140°	794.3	802.9	807.6	807.6	803.8
142.5°	832.3	840.9	843.7	844.7	840.9
145°	868.4	875.1	880.8	881.7	877.9
147.5°	900.7	909.3	913.1	915.0	911.2
150°	934.0	939.7	943.5	946.3	943.5
152.5°	963.4	969.1	973.9	977.7	973.9
155°	992.9	995.7	998.6	1003.3	1000.5
157.5°	1018.5	1020.4	1022.3	1029.0	1024.2
160°	1041.3	1043.2	1044.2	1049.9	1046.1
162.5°	1062.2	1062.2	1063.2	1069.8	1065.1
165°	1080.3	1079.3	1079.3	1086.0	1081.2
167.5°	1096.4	1093.6	1093.6	1100.2	1095.5
170°	1108.8	1105.9	1105.0	1111.6	1105.9
172.5°	1117.3	1114.5	1113.5	1120.2	1114.5
175°	1124.0	1121.1	1119.2	1125.9	1120.2
177.5°	1127.8	1124.9	1123.0	1128.7	1123.0
180°	1125.9	1125.9	1125.9	1125.9	1125.9

(END OF REPORT)