

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: P1010391

Luminaire Tested: S122RDIP-B865D925UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010391
REPORT IS A COMBINATION OF REPORTS P988816 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B865D925UB50-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

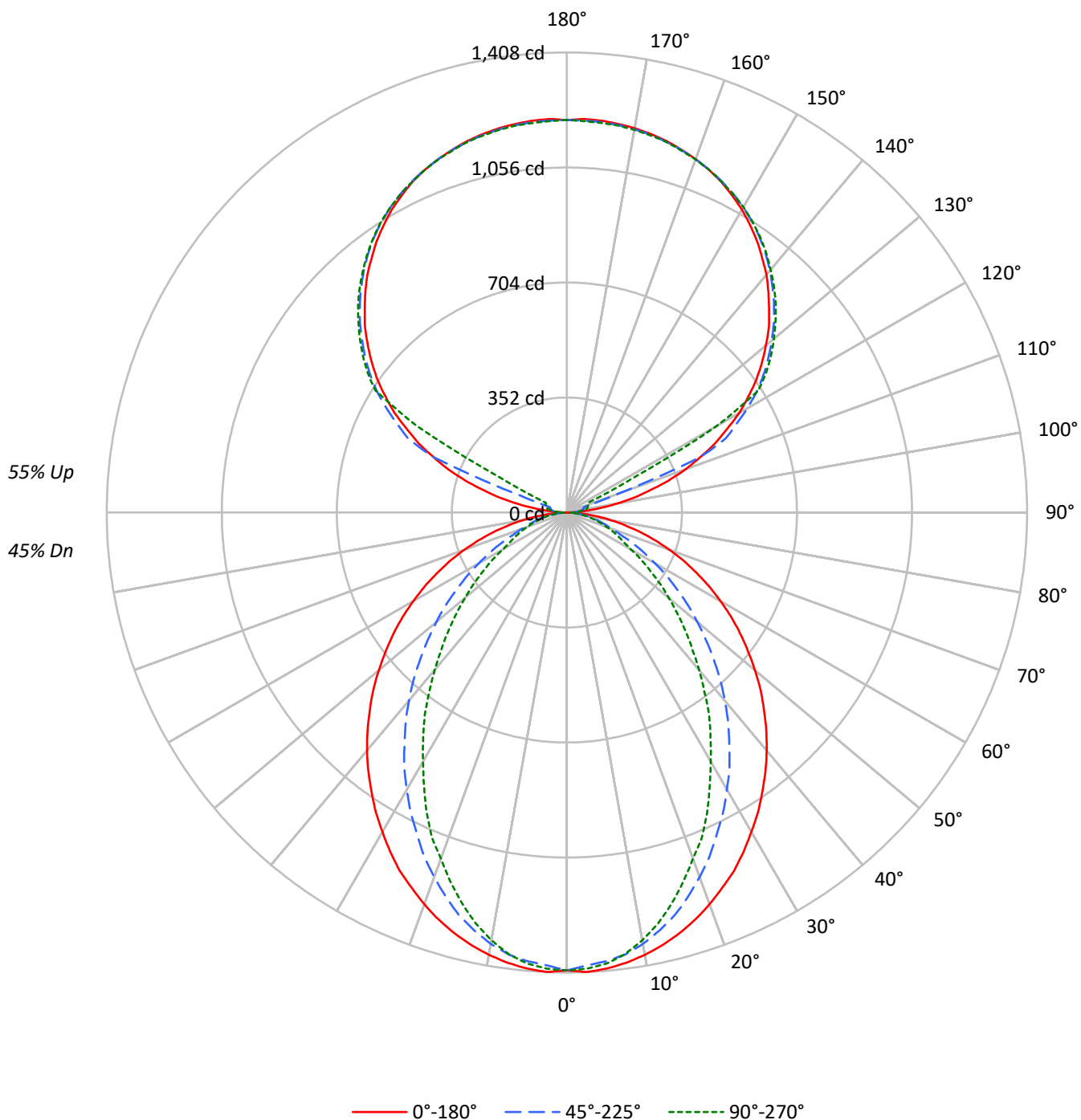
Lumens per Lamp: N/A
Luminaire Lumens: 6406.0 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	50	30	10
RCR																				
0	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45		
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44	39		
2	89	82	76	71	81	75	70	66	63	59	56	52	49	47	41	40	38	33		
3	81	72	65	60	74	67	60	56	56	51	48	46	43	40	37	35	33	29		
4	75	64	57	51	68	59	53	47	50	45	41	41	38	35	33	31	29	25		
5	69	57	49	44	63	53	46	41	45	40	36	37	33	30	30	27	25	22		
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	22	20		
7	59	47	39	34	54	43	36	32	37	32	28	31	27	24	25	22	20	17		
8	54	42	35	30	50	39	33	28	34	28	25	28	24	21	23	20	18	16		
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	16	14		
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°	22182	22182	22182
5°	22218	21103	20947
10°	21999	20016	19354
15°	21696	18731	17540
20°	21297	17270	15642
25°	20886	15770	13905
30°	20337	14311	12008
35°	19797	12840	10380
40°	19249	11394	8702
45°	18612	9901	7239
50°	17954	8462	5894
55°	17267	7025	4679
60°	16471	5617	3539
65°	15553	4283	2877
70°	14443	3107	2289
75°	13051	2371	1748
80°	11034	1605	1173
85°	7698	735	567

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18612 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	2.1
10°-20°	360.5	5.6
20°-30°	506.2	7.9
30°-40°	551.8	8.6
40°-50°	507.1	7.9
50°-60°	398.3	6.2
60°-70°	259.2	4.0
70°-80°	133.5	2.1
80°-90°	36.2	0.6
90°-100°	39.6	0.6
100°-110°	147.7	2.3
110°-120°	391.6	6.1
120°-130°	649.6	10.1
130°-140°	690.0	10.8
140°-150°	641.3	10.0
150°-160°	515.6	8.0
160°-170°	332.2	5.2
170°-180°	114.3	1.8
0°-30°	998.1	15.6
0°-40°	1549.8	24.2
0°-60°	2455.2	38.3
0°-90°	2884.1	45.0
90°-120°	578.9	9.0
90°-150°	2559.8	40.0
90°-180°	3522.0	55.0
0°-180°	6406.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1401	1401	1401	1401	1401	
5°	1401	1395	1378	1390	1386	133
15°	1333	1319	1276	1252	1239	376
25°	1210	1169	1086	1034	1014	556
35°	1042	978	866	786	758	652
45°	852	767	634	544	514	658
55°	648	549	412	336	312	579
65°	438	335	221	178	174	434
75°	233	145	102	93	91	247
85°	54	28	24	24	24	63
90°	1	10	17	22	24	6
95°	56	28	34	38	37	67
105°	264	290	53	63	66	282
115°	500	515	536	134	71	492
125°	707	718	734	741	743	630
135°	874	888	896	905	903	676
145°	1014	1014	1028	1034	1030	634
155°	1117	1109	1120	1125	1118	515
165°	1177	1172	1174	1180	1174	333
175°	1204	1198	1200	1206	1197	115
180°	1201	1201	1201	1201	1201	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1401.3	1401.3	1401.3	1401.3	1401.3
2.5°	1407.7	1401.3	1387.4	1400.1	1397.5
5°	1401.3	1395.0	1378.5	1389.9	1386.1
7.5°	1389.9	1382.3	1364.5	1369.6	1363.3
10°	1374.7	1365.8	1340.5	1336.6	1329.0
12.5°	1355.7	1344.3	1310.0	1302.4	1288.5
15°	1332.8	1318.9	1275.8	1251.7	1239.0
17.5°	1306.2	1285.9	1232.7	1204.8	1184.5
20°	1275.8	1250.4	1187.0	1155.3	1127.4
22.5°	1242.8	1213.6	1140.1	1097.0	1077.9
25°	1209.8	1169.2	1085.5	1033.6	1014.5
27.5°	1170.5	1127.4	1034.8	975.2	946.1
30°	1128.7	1080.5	979.0	914.3	880.1
32.5°	1088.1	1029.8	925.8	849.7	818.0
35°	1042.4	977.8	866.2	786.3	758.4
37.5°	998.0	928.3	810.4	722.9	691.2
40°	951.1	875.0	752.0	662.0	629.0
42.5°	902.9	821.8	693.7	599.8	568.1
45°	852.2	767.2	634.1	544.0	513.6
47.5°	804.0	714.0	577.0	487.0	459.1
50°	750.8	660.7	521.2	433.7	407.1
52.5°	698.8	603.6	468.0	384.3	360.2
55°	648.0	549.1	412.2	336.1	312.0
57.5°	596.0	494.6	362.7	291.7	271.4
60°	542.8	441.3	310.7	246.0	225.7
62.5°	490.8	389.3	266.3	205.4	195.3
65°	437.5	334.8	220.7	177.5	173.7
67.5°	386.8	284.1	177.5	156.0	152.2
70°	333.5	234.6	147.1	134.4	129.4
72.5°	282.8	189.0	123.0	112.9	110.3
75°	233.3	144.6	101.5	92.6	91.3
77.5°	183.9	102.7	79.9	74.8	72.3
80°	138.2	73.6	60.9	55.8	55.8
82.5°	96.4	49.5	41.8	39.3	39.3
85°	54.5	27.9	24.1	24.1	24.1
87.5°	20.3	10.1	10.1	8.9	8.9
90°	0.9	10.4	17.4	21.7	23.5
92.5°	21.7	18.3	20.9	22.6	23.5
95°	56.5	27.8	33.9	38.2	37.4
97.5°	101.7	30.4	44.3	46.9	47.8
100°	153.9	34.8	49.5	56.5	58.2
102.5°	211.2	209.5	51.3	60.8	63.5
105°	264.3	290.3	53.0	62.6	66.1
107.5°	326.0	347.7	54.8	64.3	67.8
110°	385.1	403.3	152.1	65.2	68.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	440.7	456.4	441.6	66.9	69.5
115°	499.8	514.6	536.3	133.9	71.3
117.5°	551.1	568.5	583.3	459.0	231.2
120°	608.5	621.5	637.2	647.6	530.3
122.5°	657.2	671.1	688.5	693.7	694.5
125°	706.7	718.0	734.5	740.6	743.2
127.5°	751.9	764.1	777.1	785.8	786.7
130°	794.5	808.4	818.0	827.5	826.7
132.5°	838.0	849.3	858.8	866.7	865.8
135°	874.5	888.4	896.2	904.9	903.2
137.5°	912.7	923.2	931.9	940.6	937.9
140°	950.1	957.1	966.6	974.5	970.1
142.5°	981.4	987.5	998.8	1005.7	1001.4
145°	1014.4	1013.6	1028.3	1034.4	1030.1
147.5°	1043.1	1040.5	1055.3	1059.6	1056.2
150°	1070.9	1064.9	1078.8	1084.0	1079.6
152.5°	1094.4	1087.5	1100.5	1105.7	1099.6
155°	1117.0	1109.2	1119.6	1124.8	1117.9
157.5°	1135.3	1128.3	1136.1	1142.2	1135.3
160°	1150.9	1145.7	1150.9	1156.1	1150.0
162.5°	1164.8	1159.6	1164.0	1170.0	1162.2
165°	1177.0	1171.8	1174.4	1180.5	1174.4
167.5°	1186.6	1181.3	1183.9	1190.0	1182.2
170°	1194.4	1189.2	1190.9	1197.0	1189.2
172.5°	1199.6	1194.4	1196.1	1202.2	1194.4
175°	1203.9	1197.9	1199.6	1205.7	1197.0
177.5°	1205.7	1199.6	1200.5	1206.5	1198.7
180°	1201.3	1201.3	1201.3	1201.3	1201.3

(END OF REPORT)