

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: P1010102

Luminaire Tested: S122RDIP-B675D1080UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010102
REPORT IS A COMBINATION OF REPORTS P988422 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B675D1080UB27-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

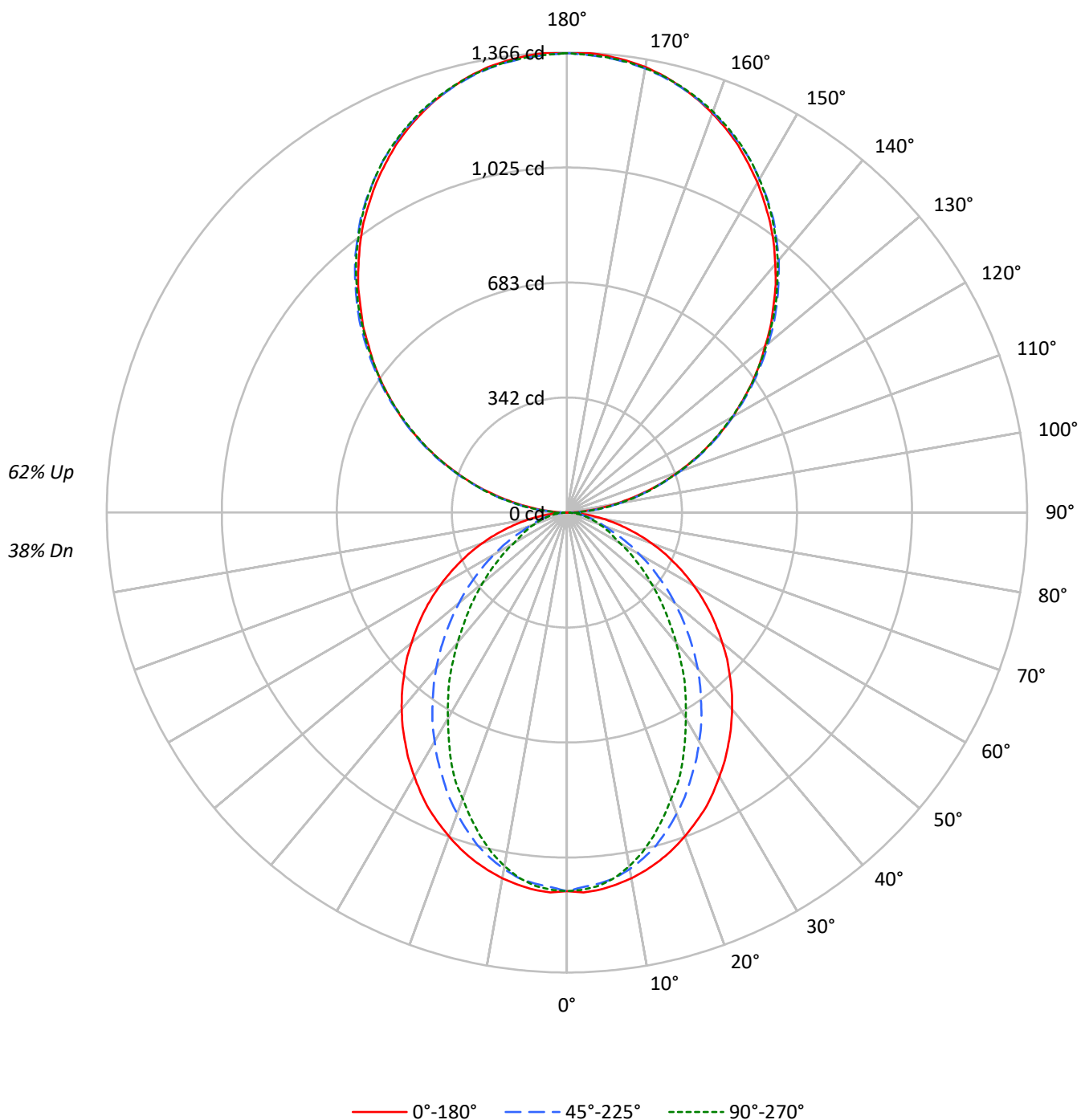
Lumens per Lamp: N/A
Luminaire Lumens: 6129.0 lumens
Efficiency: N/A
Efficacy: 86.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 70.9
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45
1	95	91	88	84	86	83	80	77	68	65	63	53	52	51	40	39	39
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	34	33
3	80	71	64	58	72	65	59	54	53	49	45	42	39	37	32	30	29
4	73	63	55	49	66	57	51	46	47	42	39	38	34	32	29	27	25
5	67	56	48	43	61	51	45	39	42	37	33	34	30	28	26	24	22
6	62	50	43	37	56	46	39	34	38	33	29	31	27	24	24	21	19
7	57	45	38	32	52	42	35	30	35	30	26	28	24	22	22	19	17
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	18	16
9	49	38	30	26	45	35	28	24	29	24	21	24	20	17	19	16	14
10	46	35	28	23	42	32	26	22	27	22	19	22	18	16	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17795	17795	17795
5°	17824	16930	16805
10°	17648	16056	15527
15°	17405	15027	14070
20°	17086	13854	12548
25°	16757	12653	11155
30°	16314	11481	9633
35°	15883	10299	8327
40°	15442	9141	6981
45°	14932	7943	5807
50°	14403	6788	4728
55°	13853	5634	3754
60°	13212	4507	2840
65°	12478	3435	2309
70°	11589	2492	1836
75°	10472	1901	1401
80°	8854	1286	942
85°	6173	588	454

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14932 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	1.7
10°-20°	289.2	4.7
20°-30°	406.1	6.6
30°-40°	442.6	7.2
40°-50°	406.8	6.6
50°-60°	319.5	5.2
60°-70°	208.0	3.4
70°-80°	107.1	1.7
80°-90°	31.2	0.5
90°-100°	84.4	1.4
100°-110°	268.2	4.4
110°-120°	458.9	7.5
120°-130°	603.6	9.8
130°-140°	677.5	11.1
140°-150°	664.4	10.8
150°-160°	557.3	9.1
160°-170°	369.6	6.0
170°-180°	129.2	2.1
0°-30°	800.7	13.1
0°-40°	1243.3	20.3
0°-60°	1969.7	32.1
0°-90°	2315.9	37.8
90°-120°	811.5	13.2
90°-150°	2757.0	45.0
90°-180°	3813.0	62.2
0°-180°	6129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1124	1119	1106	1115	1112	107
15°	1069	1058	1024	1004	994	301
25°	971	938	871	829	814	446
35°	836	784	695	631	608	523
45°	684	616	509	436	412	528
55°	520	440	331	270	250	465
65°	351	269	177	142	139	348
75°	187	116	81	74	73	198
85°	44	22	19	19	19	50
90°	1	15	40	38	39	6
95°	60	71	74	74	71	67
105°	248	251	253	256	256	261
115°	460	467	465	464	460	455
125°	670	680	677	673	672	599
135°	867	879	882	880	877	670
145°	1052	1060	1067	1068	1064	657
155°	1203	1206	1210	1215	1212	554
165°	1309	1308	1308	1316	1310	369
175°	1362	1358	1356	1364	1357	129
180°	1364	1364	1364	1364	1364	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.2	1124.2	1124.2	1124.2	1124.2
2.5°	1129.3	1124.2	1113.0	1123.2	1121.1
5°	1124.2	1119.1	1105.9	1115.0	1112.0
7.5°	1115.0	1108.9	1094.7	1098.7	1093.6
10°	1102.8	1095.7	1075.3	1072.3	1066.2
12.5°	1087.5	1078.4	1050.9	1044.8	1033.6
15°	1069.2	1058.0	1023.5	1004.1	993.9
17.5°	1047.9	1031.6	988.9	966.5	950.2
20°	1023.5	1003.1	952.2	926.8	904.4
22.5°	997.0	973.6	914.6	880.0	864.7
25°	970.6	938.0	870.9	829.1	813.9
27.5°	939.0	904.4	830.2	782.3	758.9
30°	905.4	866.8	785.4	733.5	706.0
32.5°	872.9	826.1	742.7	681.6	656.2
35°	836.3	784.4	694.8	630.8	608.4
37.5°	800.7	744.7	650.1	579.9	554.5
40°	763.0	702.0	603.3	531.1	504.6
42.5°	724.4	659.2	556.5	481.2	455.8
45°	683.7	615.5	508.7	436.4	412.0
47.5°	645.0	572.8	462.9	390.7	368.3
50°	602.3	530.0	418.1	347.9	326.6
52.5°	560.6	484.3	375.4	308.3	288.9
55°	519.9	440.5	330.6	269.6	250.3
57.5°	478.2	396.8	291.0	234.0	217.7
60°	435.4	354.0	249.3	197.4	181.1
62.5°	393.7	312.3	213.6	164.8	156.7
65°	351.0	268.6	177.0	142.4	139.4
67.5°	310.3	227.9	142.4	125.1	122.1
70°	267.6	188.2	118.0	107.8	103.8
72.5°	226.9	151.6	98.7	90.5	88.5
75°	187.2	116.0	81.4	74.3	73.2
77.5°	147.5	82.4	64.1	60.0	58.0
80°	110.9	59.0	48.8	44.8	44.8
82.5°	77.3	39.7	33.6	31.5	31.5
85°	43.7	22.4	19.3	19.3	19.3
87.5°	16.3	8.1	8.1	7.1	7.1
90°	1.2	15.0	40.3	38.0	39.1
92.5°	25.3	34.5	35.7	36.8	36.8
95°	59.8	71.4	73.7	73.7	71.4
97.5°	100.1	110.5	115.1	115.1	115.1
100°	146.2	155.4	158.8	158.8	157.7
102.5°	194.5	201.4	206.0	207.2	206.0
105°	247.5	250.9	253.2	255.5	255.5
107.5°	300.4	305.0	305.0	306.2	300.4
110°	351.0	357.9	357.9	357.9	354.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	406.3	413.2	412.0	408.6	406.3
115°	460.4	467.3	465.0	463.8	460.4
117.5°	514.5	523.7	517.9	514.5	511.0
120°	568.6	577.8	568.6	568.6	565.1
122.5°	618.1	629.6	623.8	620.4	618.1
125°	669.8	680.2	676.8	673.3	672.2
127.5°	720.5	733.2	728.5	723.9	720.5
130°	767.7	782.6	780.3	778.0	773.4
132.5°	820.6	832.1	833.3	827.5	824.1
135°	866.7	879.3	881.6	880.5	877.0
137.5°	917.3	927.7	930.0	928.8	924.2
140°	962.2	972.5	978.3	978.3	973.7
142.5°	1008.2	1018.6	1022.0	1023.2	1018.6
145°	1052.0	1060.0	1066.9	1068.1	1063.5
147.5°	1091.1	1101.5	1106.1	1108.4	1103.8
150°	1131.4	1138.3	1142.9	1146.3	1142.9
152.5°	1167.1	1174.0	1179.7	1184.3	1179.7
155°	1202.7	1206.2	1209.6	1215.4	1211.9
157.5°	1233.8	1236.1	1238.4	1246.5	1240.7
160°	1261.4	1263.7	1264.9	1271.8	1267.2
162.5°	1286.8	1286.8	1287.9	1296.0	1290.2
165°	1308.6	1307.5	1307.5	1315.5	1309.8
167.5°	1328.2	1324.7	1324.7	1332.8	1327.0
170°	1343.2	1339.7	1338.5	1346.6	1339.7
172.5°	1353.5	1350.1	1348.9	1357.0	1350.1
175°	1361.6	1358.1	1355.8	1363.9	1357.0
177.5°	1366.2	1362.7	1360.4	1367.3	1360.4
180°	1363.9	1363.9	1363.9	1363.9	1363.9

(END OF REPORT)