

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: P1010244

Luminaire Tested: S122RDIP-B675D925UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010244
REPORT IS A COMBINATION OF REPORTS P988616 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B675D925UB50-4F0-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

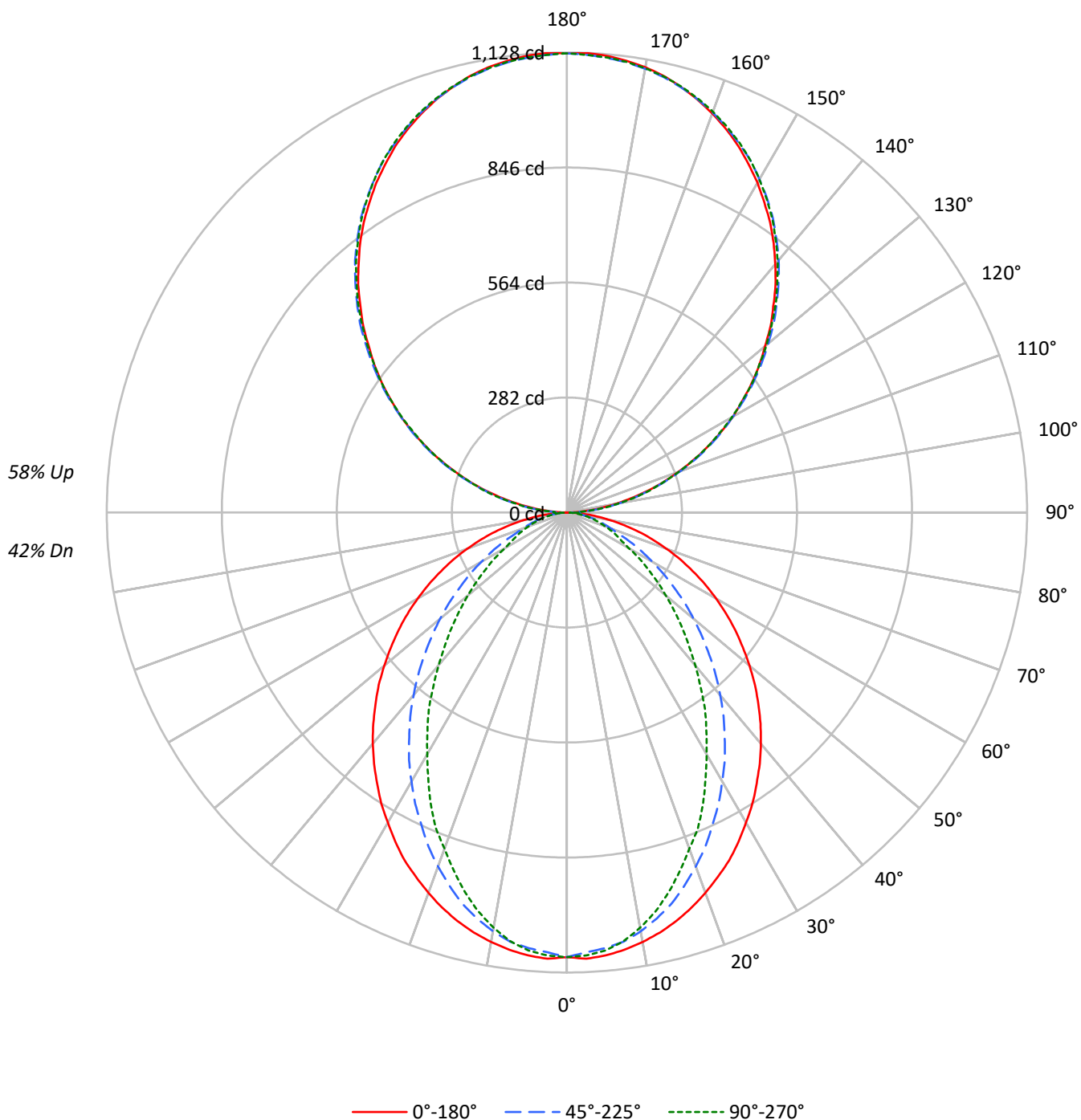
Lumens per Lamp: N/A
Luminaire Lumens: 5393.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	42
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36
3	81	71	64	59	73	66	60	55	54	50	46	44	41	38	35	33	31
4	74	63	56	50	67	58	52	47	49	44	40	40	36	33	31	29	27
5	68	57	49	43	62	52	45	40	44	39	35	36	32	29	28	26	24
6	63	51	43	38	57	47	40	35	39	34	30	32	29	26	26	23	21
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	24	21	19
8	54	42	34	29	49	39	32	27	33	28	24	27	23	20	22	19	17
9	50	38	31	26	46	35	29	25	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	33	26	22	28	23	19	23	19	17	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17256	17256	17256
5°	17284	16417	16295
10°	17114	15571	15057
15°	16879	14572	13645
20°	16568	13435	12168
25°	16249	12269	10817
30°	15820	11133	9342
35°	15400	9988	8075
40°	14975	8863	6769
45°	14480	7703	5632
50°	13965	6584	4585
55°	13432	5464	3640
60°	12811	4370	2754
65°	12101	3332	2239
70°	11238	2416	1780
75°	10153	1843	1359
80°	8583	1249	912
85°	5989	570	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14480 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	1.9
10°-20°	280.5	5.2
20°-30°	393.8	7.3
30°-40°	429.2	8.0
40°-50°	394.5	7.3
50°-60°	309.8	5.7
60°-70°	201.7	3.7
70°-80°	103.8	1.9
80°-90°	29.7	0.6
90°-100°	69.6	1.3
100°-110°	221.4	4.1
110°-120°	378.9	7.0
120°-130°	498.3	9.2
130°-140°	559.3	10.4
140°-150°	548.5	10.2
150°-160°	460.1	8.5
160°-170°	305.1	5.7
170°-180°	106.6	2.0
0°-30°	776.4	14.4
0°-40°	1205.7	22.4
0°-60°	1910.0	35.4
0°-90°	2245.2	41.6
90°-120°	669.9	12.4
90°-150°	2276.0	42.2
90°-180°	3148.0	58.4
0°-180°	5393.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1090	1085	1072	1081	1078	103
15°	1037	1026	992	974	964	292
25°	941	910	844	804	789	433
35°	811	761	674	612	590	508
45°	663	597	493	423	400	512
55°	504	427	321	261	243	450
65°	340	260	172	138	135	337
75°	182	112	79	72	71	192
85°	42	22	19	19	19	49
90°	1	12	33	31	32	5
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°	1090.1	1090.1	1090.1	1090.1	1090.1
2.5°	1095.1	1090.1	1079.3	1089.1	1087.2
5°	1090.1	1085.2	1072.4	1081.3	1078.3
7.5°	1081.3	1075.3	1061.5	1065.5	1060.5
10°	1069.4	1062.5	1042.8	1039.8	1033.9
12.5°	1054.6	1045.7	1019.1	1013.2	1002.3
15°	1036.9	1026.0	992.5	973.7	963.9
17.5°	1016.1	1000.4	958.9	937.2	921.4
20°	992.5	972.7	923.4	898.7	877.0
22.5°	966.8	944.1	886.9	853.4	838.6
25°	941.2	909.6	844.5	804.0	789.2
27.5°	910.6	877.0	805.0	758.7	736.0
30°	878.0	840.5	761.6	711.3	684.7
32.5°	846.5	801.1	720.2	661.0	636.3
35°	810.9	760.6	673.8	611.7	590.0
37.5°	776.4	722.2	630.4	562.3	537.7
40°	739.9	680.7	585.0	515.0	489.3
42.5°	702.4	639.3	539.6	466.6	442.0
45°	663.0	596.9	493.3	423.2	399.6
47.5°	625.5	555.4	448.9	378.8	357.1
50°	584.0	514.0	405.5	337.4	316.7
52.5°	543.6	469.6	364.0	298.9	280.2
55°	504.1	427.2	320.6	261.4	242.7
57.5°	463.7	384.8	282.2	226.9	211.1
60°	422.2	343.3	241.7	191.4	175.6
62.5°	381.8	302.9	207.2	159.8	151.9
65°	340.4	260.4	171.7	138.1	135.2
67.5°	300.9	221.0	138.1	121.3	118.4
70°	259.5	182.5	114.4	104.6	100.6
72.5°	220.0	147.0	95.7	87.8	85.8
75°	181.5	112.5	78.9	72.0	71.0
77.5°	143.0	79.9	62.2	58.2	56.2
80°	107.5	57.2	47.4	43.4	43.4
82.5°	75.0	38.5	32.6	30.6	30.6
85°	42.4	21.7	18.7	18.7	18.7
87.5°	15.8	7.9	7.9	6.9	6.9
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)