

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: P1010154

Luminaire Tested: S122RDIP-B675D330UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010154
REPORT IS A COMBINATION OF REPORTS P988496 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B675D330UB50-4F0-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

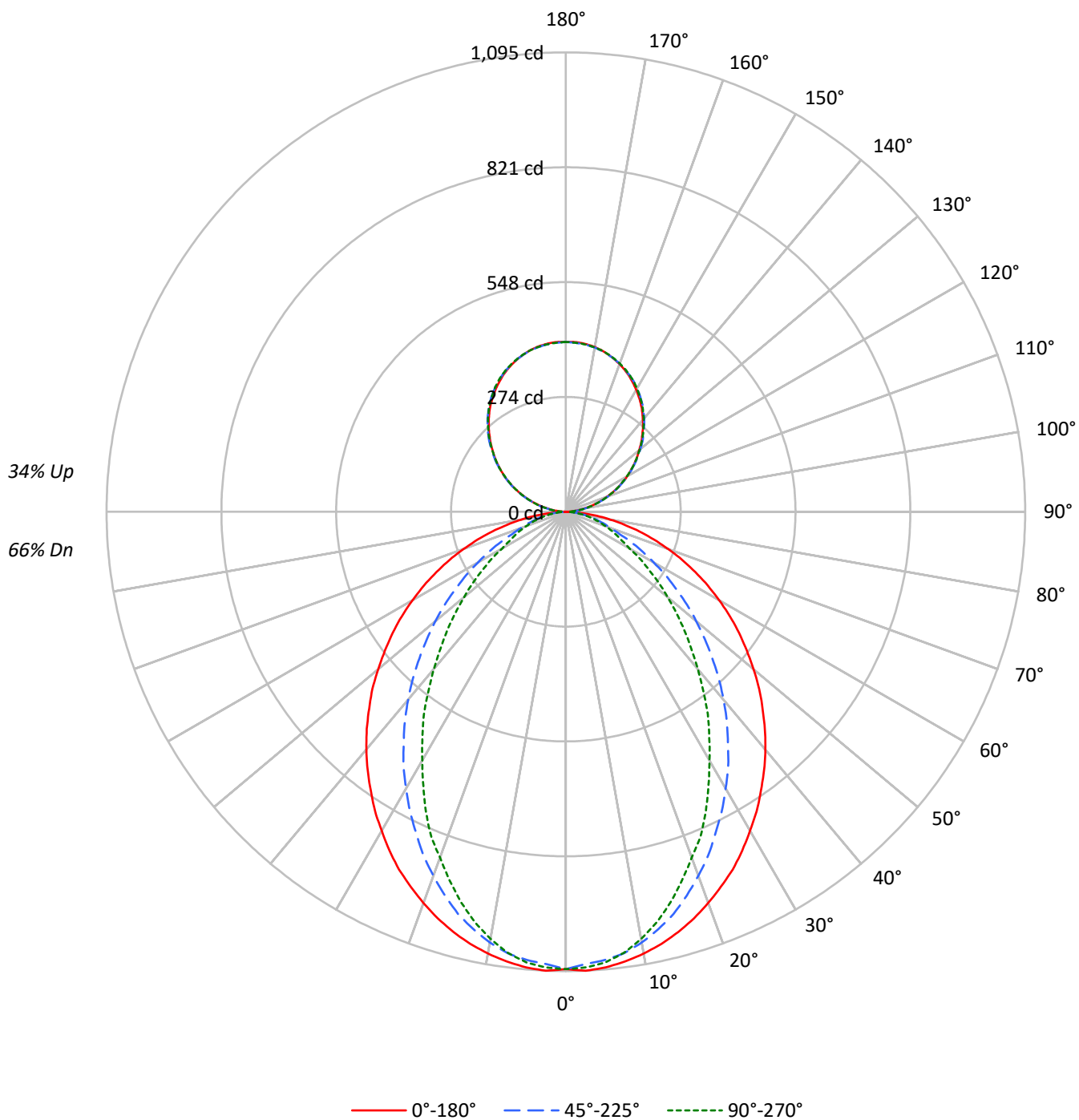
Lumens per Lamp: N/A
Luminaire Lumens: 3375.0 lumens
Efficiency: N/A
Efficacy: 74.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71
1	102	98	94	91	96	92	89	86	82	80	77	73	71	69	64	63	61
2	94	86	80	75	88	82	76	72	73	69	65	65	62	59	57	55	53
3	86	76	69	64	81	72	66	61	65	60	56	58	54	51	51	48	46
4	79	68	60	54	74	65	58	52	58	52	48	52	47	44	46	43	40
5	73	61	53	47	68	58	51	45	52	46	42	47	42	39	42	38	35
6	67	55	47	41	63	53	45	40	47	42	37	43	38	34	38	34	31
7	62	50	42	37	59	48	41	35	43	37	33	39	34	31	35	31	28
8	58	46	38	33	55	44	37	32	40	34	30	36	31	28	32	28	25
9	54	42	35	30	51	40	33	29	37	31	27	33	28	25	30	26	23
10	51	39	32	27	48	37	30	26	34	28	24	31	26	23	28	24	21

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	3.0
10°-20°	280.5	8.3
20°-30°	393.8	11.7
30°-40°	429.2	12.7
40°-50°	394.5	11.7
50°-60°	309.8	9.2
60°-70°	201.7	6.0
70°-80°	103.8	3.1
80°-90°	27.7	0.8
90°-100°	25.0	0.7
100°-110°	79.6	2.4
110°-120°	136.2	4.0
120°-130°	179.2	5.3
130°-140°	201.1	6.0
140°-150°	197.2	5.8
150°-160°	165.4	4.9
160°-170°	109.7	3.3
170°-180°	38.3	1.1
0°-30°	776.4	23.0
0°-40°	1205.7	35.7
0°-60°	1910.0	56.6
0°-90°	2243.1	66.5
90°-120°	240.9	7.1
90°-150°	818.4	24.2
90°-180°	1132.0	33.5
0°-180°	3375.0	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°	0	4	12	11	12	3
95°	18	21	22	22	21	20
105°	74	74	75	76	76	78
115°	137	139	138	138	137	135
125°	199	202	201	200	200	178
135°	257	261	262	261	260	199
145°	312	315	317	317	316	195
155°	357	358	359	361	360	164
165°	388	388	388	390	389	110
175°	404	403	402	405	403	38
180°	405	405	405	405	405	

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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°	0.3	4.4	12.0	11.3	11.6
92.5°	7.5	10.2	10.6	10.9	10.9
95°	17.8	21.2	21.9	21.9	21.2
97.5°	29.7	32.8	34.2	34.2	34.2
100°	43.4	46.1	47.1	47.1	46.8
102.5°	57.7	59.8	61.2	61.5	61.2
105°	73.5	74.5	75.2	75.8	75.8
107.5°	89.2	90.5	90.5	90.9	89.2
110°	104.2	106.2	106.2	106.2	105.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	122.6	122.3	121.3	120.6
115°	136.7	138.7	138.0	137.7	136.7
117.5°	152.7	155.4	153.7	152.7	151.7
120°	168.8	171.5	168.8	168.8	167.7
122.5°	183.5	186.9	185.2	184.1	183.5
125°	198.8	201.9	200.9	199.9	199.5
127.5°	213.9	217.6	216.3	214.9	213.9
130°	227.9	232.3	231.6	230.9	229.6
132.5°	243.6	247.0	247.3	245.6	244.6
135°	257.3	261.0	261.7	261.4	260.3
137.5°	272.3	275.4	276.0	275.7	274.3
140°	285.6	288.7	290.4	290.4	289.0
142.5°	299.3	302.3	303.4	303.7	302.3
145°	312.3	314.6	316.7	317.0	315.7
147.5°	323.9	326.9	328.3	329.0	327.6
150°	335.8	337.9	339.2	340.3	339.2
152.5°	346.4	348.5	350.2	351.5	350.2
155°	357.0	358.0	359.1	360.8	359.7
157.5°	366.2	366.9	367.6	370.0	368.3
160°	374.4	375.1	375.5	377.5	376.1
162.5°	381.9	381.9	382.3	384.7	383.0
165°	388.4	388.1	388.1	390.5	388.8
167.5°	394.2	393.2	393.2	395.6	393.9
170°	398.7	397.7	397.3	399.7	397.7
172.5°	401.8	400.7	400.4	402.8	400.7
175°	404.2	403.1	402.4	404.8	402.8
177.5°	405.5	404.5	403.8	405.9	403.8
180°	404.8	404.8	404.8	404.8	404.8

(END OF REPORT)