

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: P1010142

Luminaire Tested: S122RDIP-B675D330UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010142
REPORT IS A COMBINATION OF REPORTS P988484 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B675D330UB35-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

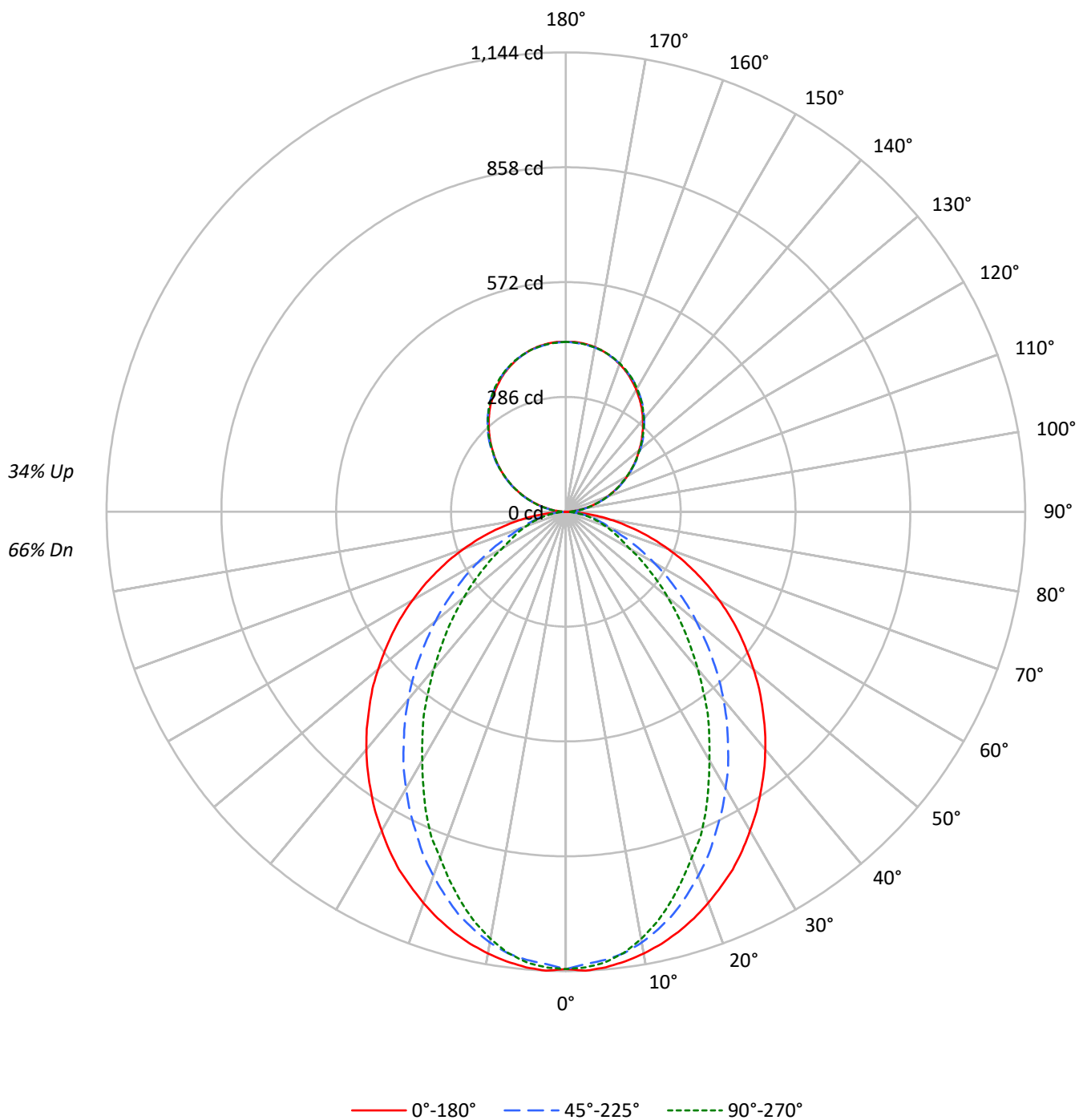
Lumens per Lamp: N/A
Luminaire Lumens: 3526.0 lumens
Efficiency: N/A
Efficacy: 78.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	41	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°	18026	18026	18026
5°	18056	17149	17022
10°	17877	16265	15728
15°	17631	15221	14253
20°	17306	14034	12712
25°	16973	12817	11299
30°	16526	11630	9758
35°	16088	10434	8435
40°	15643	9259	7072
45°	15124	8046	5883
50°	14590	6877	4789
55°	14032	5708	3802
60°	13385	4565	2876
65°	12638	3480	2339
70°	11736	2524	1859
75°	10606	1925	1420
80°	8966	1304	952
85°	6258	598	461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15124 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.7	3.0
10°-20°	293.0	8.3
20°-30°	411.3	11.7
30°-40°	448.4	12.7
40°-50°	412.1	11.7
50°-60°	323.6	9.2
60°-70°	210.7	6.0
70°-80°	108.4	3.1
80°-90°	28.9	0.8
90°-100°	26.2	0.7
100°-110°	83.2	2.4
110°-120°	142.4	4.0
120°-130°	187.2	5.3
130°-140°	210.2	6.0
140°-150°	206.1	5.8
150°-160°	172.9	4.9
160°-170°	114.7	3.3
170°-180°	40.1	1.1
0°-30°	811.1	23.0
0°-40°	1259.4	35.7
0°-60°	1995.2	56.6
0°-90°	2343.2	66.5
90°-120°	251.7	7.1
90°-150°	855.2	24.3
90°-180°	1183.0	33.6
0°-180°	3526.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1139	1134	1120	1130	1126	108
15°	1083	1072	1037	1017	1007	305
25°	983	950	882	840	824	452
35°	847	795	704	639	616	530
45°	692	624	515	442	417	535
55°	527	446	335	273	254	471
65°	356	272	179	144	141	352
75°	190	118	82	75	74	201
85°	44	23	20	20	20	51
90°	0	5	12	12	12	3
95°	19	22	23	23	22	21
105°	77	78	78	79	79	81
115°	143	145	144	144	143	141
125°	208	211	210	209	208	186
135°	269	273	274	273	272	208
145°	326	329	331	331	330	204
155°	373	374	375	377	376	172
165°	406	406	406	408	406	115
175°	422	421	421	423	421	40
180°	423	423	423	423	423	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.8	1138.8	1138.8	1138.8	1138.8
2.5°	1143.9	1138.8	1127.4	1137.7	1135.7
5°	1138.8	1133.6	1120.2	1129.5	1126.4
7.5°	1129.5	1123.3	1108.9	1113.0	1107.8
10°	1117.1	1109.9	1089.3	1086.2	1080.0
12.5°	1101.7	1092.4	1064.6	1058.4	1047.0
15°	1083.1	1071.8	1036.7	1017.2	1006.8
17.5°	1061.5	1045.0	1001.7	979.0	962.5
20°	1036.7	1016.1	964.6	938.8	916.2
22.5°	1009.9	986.2	926.5	891.4	876.0
25°	983.1	950.2	882.2	839.9	824.4
27.5°	951.2	916.2	840.9	792.5	768.8
30°	917.2	878.0	795.6	743.0	715.2
32.5°	884.2	836.8	752.3	690.5	664.7
35°	847.1	794.6	703.9	638.9	616.3
37.5°	811.0	754.4	658.5	587.4	561.6
40°	772.9	711.1	611.1	537.9	511.2
42.5°	733.8	667.8	563.7	487.4	461.7
45°	692.5	623.5	515.3	442.1	417.4
47.5°	653.4	580.2	468.9	395.7	373.1
50°	610.1	536.9	423.6	352.4	330.8
52.5°	567.8	490.5	380.3	312.3	292.7
55°	526.6	446.2	334.9	273.1	253.5
57.5°	484.4	401.9	294.7	237.0	220.5
60°	441.1	358.6	252.5	199.9	183.4
62.5°	398.8	316.4	216.4	166.9	158.7
65°	355.5	272.1	179.3	144.3	141.2
67.5°	314.3	230.8	144.3	126.8	123.7
70°	271.0	190.7	119.5	109.2	105.1
72.5°	229.8	153.6	100.0	91.7	89.7
75°	189.6	117.5	82.4	75.2	74.2
77.5°	149.4	83.5	64.9	60.8	58.7
80°	112.3	59.8	49.5	45.3	45.3
82.5°	78.3	40.2	34.0	31.9	31.9
85°	44.3	22.7	19.6	19.6	19.6
87.5°	16.5	8.2	8.2	7.2	7.2
90°	0.4	4.6	12.5	11.8	12.1
92.5°	7.9	10.7	11.1	11.4	11.4
95°	18.6	22.1	22.8	22.8	22.1
97.5°	31.1	34.3	35.7	35.7	35.7
100°	45.3	48.2	49.3	49.3	48.9
102.5°	60.3	62.5	63.9	64.3	63.9
105°	76.8	77.8	78.5	79.3	79.3
107.5°	93.2	94.6	94.6	95.0	93.2
110°	108.9	111.0	111.0	111.0	110.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	126.0	128.2	127.8	126.7	126.0
115°	142.8	144.9	144.2	143.9	142.8
117.5°	159.6	162.4	160.7	159.6	158.5
120°	176.4	179.2	176.4	176.4	175.3
122.5°	191.7	195.3	193.5	192.4	191.7
125°	207.8	211.0	209.9	208.9	208.5
127.5°	223.5	227.4	226.0	224.6	223.5
130°	238.1	242.8	242.1	241.3	239.9
132.5°	254.6	258.1	258.5	256.7	255.6
135°	268.8	272.8	273.5	273.1	272.0
137.5°	284.5	287.8	288.5	288.1	286.7
140°	298.5	301.7	303.5	303.5	302.0
142.5°	312.7	316.0	317.0	317.4	316.0
145°	326.3	328.8	331.0	331.3	329.9
147.5°	338.4	341.7	343.1	343.8	342.4
150°	350.9	353.1	354.5	355.6	354.5
152.5°	362.0	364.2	365.9	367.4	365.9
155°	373.1	374.1	375.2	377.0	375.9
157.5°	382.7	383.4	384.1	386.6	384.9
160°	391.3	392.0	392.4	394.5	393.1
162.5°	399.1	399.1	399.5	402.0	400.2
165°	405.9	405.6	405.6	408.1	406.3
167.5°	412.0	410.9	410.9	413.4	411.6
170°	416.6	415.6	415.2	417.7	415.6
172.5°	419.8	418.8	418.4	420.9	418.8
175°	422.3	421.3	420.6	423.1	420.9
177.5°	423.8	422.7	422.0	424.1	422.0
180°	423.1	423.1	423.1	423.1	423.1

(END OF REPORT)