

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: P1010284

Luminaire Tested: S122RDIP-B865D330UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010284
REPORT IS A COMBINATION OF REPORTS P988679 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B865D330UB30-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

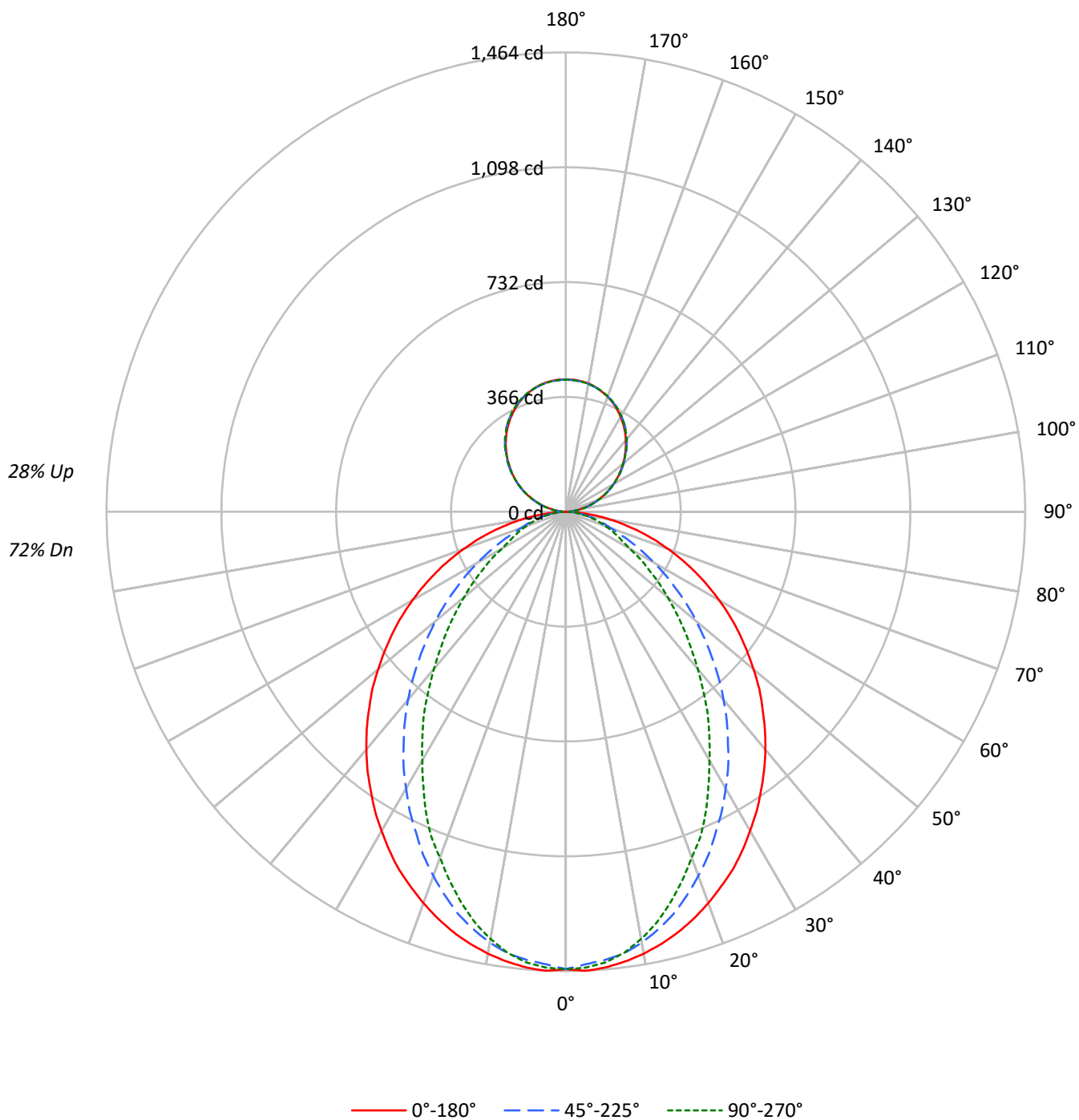
Lumens per Lamp: N/A
Luminaire Lumens: 4177.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76
1	103	99	95	92	98	94	91	88	85	82	80	76	74	73	68	67	66
2	95	87	81	76	90	83	78	73	75	71	67	68	65	62	61	59	56
3	87	78	70	65	82	74	67	62	67	62	58	61	57	53	55	52	49
4	80	69	61	55	76	66	59	53	60	54	50	55	50	46	49	46	43
5	74	62	54	48	70	59	52	47	54	48	44	49	44	41	45	41	38
6	68	56	48	42	65	54	46	41	49	43	38	45	40	36	41	37	34
7	63	51	43	38	60	49	42	36	45	39	34	41	36	32	38	33	30
8	59	47	39	34	56	45	38	33	41	35	31	38	33	29	35	30	27
9	55	43	35	30	52	41	34	29	38	32	28	35	30	26	32	28	25
10	52	40	32	27	49	38	31	27	35	29	25	33	28	24	30	26	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23074	23074	23074
5°	23112	21953	21790
10°	22884	20821	20133
15°	22570	19484	18246
20°	22154	17965	16272
25°	21727	16405	14465
30°	21155	14887	12491
35°	20594	13356	10797
40°	20025	11853	9052
45°	19361	10300	7531
50°	18676	8803	6131
55°	17962	7306	4867
60°	17133	5843	3682
65°	16179	4454	2993
70°	15028	3231	2381
75°	13577	2464	1818
80°	11481	1668	1219
85°	8009	765	590

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19361 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	3.3
10°-20°	375.1	9.0
20°-30°	526.6	12.6
30°-40°	574.0	13.7
40°-50°	527.5	12.6
50°-60°	414.3	9.9
60°-70°	269.7	6.5
70°-80°	138.8	3.3
80°-90°	36.7	0.9
90°-100°	26.1	0.6
100°-110°	82.8	2.0
110°-120°	141.8	3.4
120°-130°	186.4	4.5
130°-140°	209.3	5.0
140°-150°	205.2	4.9
150°-160°	172.1	4.1
160°-170°	114.2	2.7
170°-180°	39.9	1.0
0°-30°	1038.2	24.9
0°-40°	1612.2	38.6
0°-60°	2554.0	61.1
0°-90°	2999.2	71.8
90°-120°	250.7	6.0
90°-150°	851.6	20.4
90°-180°	1178.0	28.2
0°-180°	4177.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1458	1451	1434	1446	1442	138
15°	1386	1372	1327	1302	1289	391
25°	1258	1216	1129	1075	1055	579
35°	1084	1017	901	818	789	679
45°	886	798	660	566	534	685
55°	674	571	429	350	324	602
65°	455	348	230	185	181	451
75°	243	150	106	96	95	257
85°	57	29	25	25	25	65
90°	0	5	12	12	12	4
95°	18	22	23	23	22	21
105°	76	78	78	79	79	81
115°	142	144	144	143	142	141
125°	207	210	209	208	208	185
135°	268	272	272	272	271	207
145°	325	327	330	330	328	203
155°	372	373	374	375	374	171
165°	404	404	404	406	405	114
175°	421	420	419	421	419	40
180°	421	421	421	421	421	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1457.7	1457.7	1457.7	1457.7	1457.7
2.5°	1464.3	1457.7	1443.2	1456.4	1453.8
5°	1457.7	1451.1	1434.0	1445.9	1441.9
7.5°	1445.9	1437.9	1419.5	1424.7	1418.1
10°	1430.0	1420.8	1394.4	1390.4	1382.5
12.5°	1410.2	1398.4	1362.7	1354.8	1340.3
15°	1386.5	1372.0	1327.1	1302.1	1288.9
17.5°	1358.8	1337.7	1282.3	1253.2	1232.1
20°	1327.1	1300.7	1234.8	1201.8	1172.8
22.5°	1292.8	1262.5	1186.0	1141.1	1121.3
25°	1258.5	1216.3	1129.2	1075.2	1055.4
27.5°	1217.6	1172.8	1076.5	1014.5	984.1
30°	1174.1	1124.0	1018.4	951.1	915.5
32.5°	1131.9	1071.2	963.0	883.9	850.9
35°	1084.4	1017.1	901.0	817.9	788.9
37.5°	1038.2	965.7	843.0	751.9	719.0
40°	989.4	910.3	782.3	688.6	654.3
42.5°	939.3	854.8	721.6	624.0	591.0
45°	886.5	798.1	659.6	565.9	534.3
47.5°	836.4	742.7	600.2	506.6	477.6
50°	781.0	687.3	542.2	451.2	423.5
52.5°	726.9	627.9	486.8	399.7	374.7
55°	674.1	571.2	428.7	349.6	324.5
57.5°	620.0	514.5	377.3	303.4	282.3
60°	564.6	459.1	323.2	255.9	234.8
62.5°	510.5	405.0	277.0	213.7	203.2
65°	455.1	348.3	229.5	184.7	180.7
67.5°	402.4	295.5	184.7	162.3	158.3
70°	347.0	244.1	153.0	139.8	134.6
72.5°	294.2	196.6	128.0	117.4	114.8
75°	242.7	150.4	105.5	96.3	95.0
77.5°	191.3	106.9	83.1	77.8	75.2
80°	143.8	76.5	63.3	58.0	58.0
82.5°	100.3	51.4	43.5	40.9	40.9
85°	56.7	29.0	25.1	25.1	25.1
87.5°	21.1	10.6	10.6	9.2	9.2
90°	0.4	4.6	12.4	11.7	12.1
92.5°	7.8	10.7	11.0	11.4	11.4
95°	18.5	22.0	22.8	22.8	22.0
97.5°	30.9	34.1	35.6	35.6	35.6
100°	45.1	48.0	49.1	49.1	48.7
102.5°	60.1	62.2	63.6	64.0	63.6
105°	76.4	77.5	78.2	78.9	78.9
107.5°	92.8	94.2	94.2	94.6	92.8
110°	108.4	110.6	110.6	110.6	109.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.5	127.6	127.3	126.2	125.5
115°	142.2	144.3	143.6	143.3	142.2
117.5°	158.9	161.8	160.0	158.9	157.8
120°	175.6	178.5	175.6	175.6	174.6
122.5°	190.9	194.5	192.7	191.6	190.9
125°	206.9	210.1	209.0	208.0	207.6
127.5°	222.5	226.5	225.0	223.6	222.5
130°	237.1	241.7	241.0	240.3	238.9
132.5°	253.5	257.0	257.4	255.6	254.5
135°	267.7	271.6	272.3	272.0	270.9
137.5°	283.3	286.5	287.2	286.9	285.5
140°	297.2	300.4	302.2	302.2	300.8
142.5°	311.4	314.6	315.7	316.0	314.6
145°	324.9	327.4	329.6	329.9	328.5
147.5°	337.0	340.2	341.6	342.4	340.9
150°	349.5	351.6	353.0	354.1	353.0
152.5°	360.5	362.6	364.4	365.8	364.4
155°	371.5	372.6	373.6	375.4	374.3
157.5°	381.1	381.8	382.5	385.0	383.2
160°	389.6	390.3	390.7	392.8	391.4
162.5°	397.5	397.5	397.8	400.3	398.5
165°	404.2	403.9	403.9	406.3	404.6
167.5°	410.3	409.2	409.2	411.7	409.9
170°	414.9	413.8	413.5	415.9	413.8
172.5°	418.1	417.0	416.7	419.1	417.0
175°	420.6	419.5	418.8	421.3	419.1
177.5°	422.0	420.9	420.2	422.3	420.2
180°	421.3	421.3	421.3	421.3	421.3

(END OF REPORT)