

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: P1010277

Luminaire Tested: S122RDIP-B865D330UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010277
REPORT IS A COMBINATION OF REPORTS P988661 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B865D330UB27-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

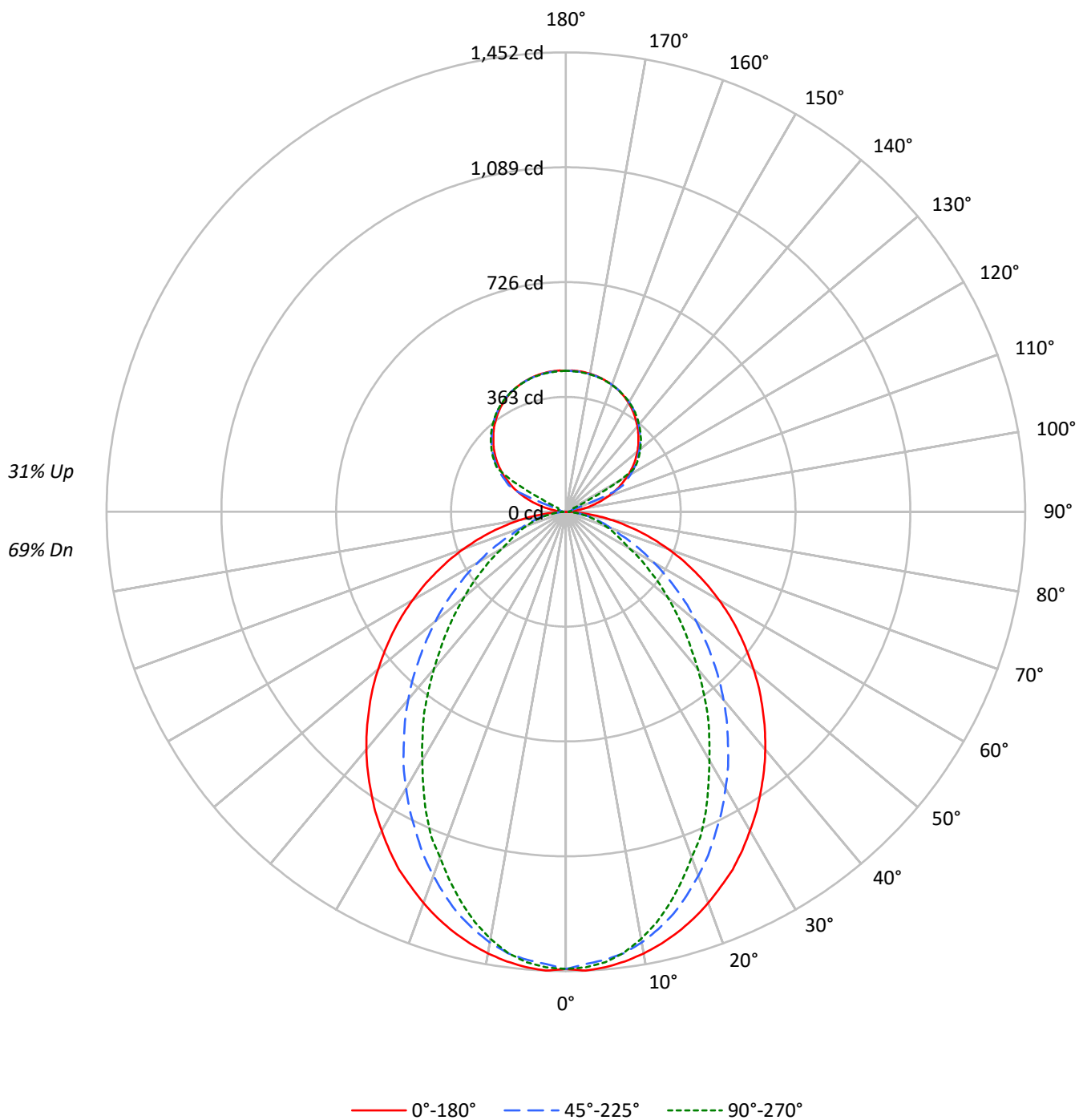
Lumens per Lamp: N/A
Luminaire Lumens: 4279.0 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	94	94	94	84	84	84	74	74	74
1	103	99	95	91	97	93	90	87	84	81	79	75	73	71	66	65	64
2	94	87	81	76	89	83	77	73	74	70	66	66	63	61	59	57	55
3	86	77	70	64	81	73	67	62	66	61	57	59	55	52	53	50	47
4	79	69	61	55	75	65	58	53	59	54	49	53	49	45	48	44	41
5	73	62	54	48	69	59	52	46	53	47	43	48	44	40	44	40	37
6	68	56	48	42	64	53	46	41	48	42	38	44	39	35	40	36	33
7	63	51	43	37	60	48	41	36	44	38	34	40	35	31	37	32	29
8	59	46	39	33	55	44	37	32	41	35	30	37	32	28	34	30	26
9	55	43	35	30	52	41	34	29	37	32	27	34	29	26	31	27	24
10	51	39	32	27	49	38	31	26	35	29	25	32	27	23	29	25	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22875	22875	22875
5°	22912	21762	21601
10°	22686	20640	19959
15°	22375	19315	18088
20°	21962	17809	16131
25°	21539	16263	14339
30°	20971	14759	12384
35°	20416	13240	10703
40°	19851	11750	8975
45°	19193	10211	7465
50°	18514	8727	6077
55°	17808	7243	4825
60°	16984	5793	3651
65°	16040	4417	2968
70°	14893	3204	2360
75°	13459	2443	1803
80°	11377	1655	1209
85°	7939	756	583

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19193 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	3.2
10°-20°	371.8	8.7
20°-30°	522.0	12.2
30°-40°	569.0	13.3
40°-50°	523.0	12.2
50°-60°	410.7	9.6
60°-70°	267.3	6.2
70°-80°	137.6	3.2
80°-90°	35.9	0.8
90°-100°	14.7	0.3
100°-110°	54.8	1.3
110°-120°	145.3	3.4
120°-130°	240.9	5.6
130°-140°	255.9	6.0
140°-150°	237.8	5.6
150°-160°	191.2	4.5
160°-170°	123.2	2.9
170°-180°	42.4	1.0
0°-30°	1029.2	24.1
0°-40°	1598.2	37.4
0°-60°	2531.9	59.2
0°-90°	2972.8	69.5
90°-120°	214.7	5.0
90°-150°	949.4	22.2
90°-180°	1306.0	30.5
0°-180°	4279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1445	1438	1422	1433	1429	137
15°	1374	1360	1316	1291	1278	387
25°	1248	1206	1119	1066	1046	574
35°	1075	1008	893	811	782	673
45°	879	791	654	561	530	679
55°	668	566	425	347	322	597
65°	451	345	228	183	179	447
75°	241	149	105	96	94	254
85°	56	29	25	25	25	65
90°	0	4	6	8	9	4
95°	21	10	13	14	14	25
105°	98	108	20	23	24	105
115°	185	191	199	50	26	183
125°	262	266	272	275	276	234
135°	324	330	332	336	335	251
145°	376	376	381	384	382	235
155°	414	411	415	417	415	191
165°	436	435	436	438	436	123
175°	446	444	445	447	444	42
180°	446	446	446	446	446	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1445.1	1445.1	1445.1	1445.1	1445.1
2.5°	1451.6	1445.1	1430.7	1443.8	1441.2
5°	1445.1	1438.5	1421.5	1433.3	1429.4
7.5°	1433.3	1425.5	1407.2	1412.4	1405.9
10°	1417.6	1408.5	1382.3	1378.4	1370.5
12.5°	1398.0	1386.2	1350.9	1343.1	1328.7
15°	1374.5	1360.1	1315.6	1290.8	1277.7
17.5°	1347.0	1326.1	1271.2	1242.4	1221.5
20°	1315.6	1289.5	1224.1	1191.4	1162.6
22.5°	1281.6	1251.5	1175.7	1131.2	1111.6
25°	1247.6	1205.8	1119.4	1065.8	1046.2
27.5°	1207.1	1162.6	1067.1	1005.7	975.6
30°	1163.9	1114.2	1009.6	942.9	907.6
32.5°	1122.1	1061.9	954.7	876.2	843.5
35°	1075.0	1008.3	893.2	810.8	782.0
37.5°	1029.2	957.3	835.7	745.4	712.7
40°	980.8	902.4	775.5	682.7	648.7
42.5°	931.1	847.4	715.3	618.6	585.9
45°	878.8	791.2	653.9	561.0	529.6
47.5°	829.1	736.3	595.0	502.2	473.4
50°	774.2	681.3	537.5	447.3	419.8
52.5°	720.6	622.5	482.6	396.3	371.4
55°	668.3	566.3	425.0	346.6	321.7
57.5°	614.7	510.0	374.0	300.8	279.9
60°	559.7	455.1	320.4	253.7	232.8
62.5°	506.1	401.5	274.6	211.9	201.4
65°	451.2	345.3	227.6	183.1	179.2
67.5°	398.9	292.9	183.1	160.9	156.9
70°	343.9	241.9	151.7	138.6	133.4
72.5°	291.6	194.9	126.9	116.4	113.8
75°	240.6	149.1	104.6	95.5	94.2
77.5°	189.6	105.9	82.4	77.2	74.5
80°	142.5	75.9	62.8	57.5	57.5
82.5°	99.4	51.0	43.2	40.5	40.5
85°	56.2	28.8	24.8	24.8	24.8
87.5°	20.9	10.5	10.5	9.2	9.2
90°	0.3	3.9	6.4	8.1	8.7
92.5°	8.1	6.8	7.7	8.4	8.7
95°	21.0	10.3	12.6	14.2	13.9
97.5°	37.7	11.3	16.4	17.4	17.7
100°	57.1	12.9	18.4	21.0	21.6
102.5°	78.3	77.7	19.0	22.6	23.5
105°	98.0	107.7	19.7	23.2	24.5
107.5°	120.9	129.0	20.3	23.9	25.1
110°	142.8	149.6	56.4	24.2	25.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.5	169.3	163.8	24.8	25.8
115°	185.4	190.9	198.9	49.6	26.4
117.5°	204.4	210.8	216.3	170.2	85.8
120°	225.7	230.5	236.3	240.2	196.7
122.5°	243.7	248.9	255.3	257.3	257.6
125°	262.1	266.3	272.4	274.7	275.7
127.5°	278.9	283.4	288.2	291.4	291.8
130°	294.7	299.8	303.4	306.9	306.6
132.5°	310.8	315.0	318.5	321.4	321.1
135°	324.3	329.5	332.4	335.6	335.0
137.5°	338.5	342.4	345.6	348.8	347.9
140°	352.4	355.0	358.5	361.4	359.8
142.5°	364.0	366.2	370.4	373.0	371.4
145°	376.2	375.9	381.4	383.7	382.0
147.5°	386.9	385.9	391.4	393.0	391.7
150°	397.2	394.9	400.1	402.0	400.4
152.5°	405.9	403.3	408.2	410.1	407.8
155°	414.3	411.4	415.3	417.2	414.6
157.5°	421.1	418.5	421.4	423.6	421.1
160°	426.9	424.9	426.9	428.8	426.5
162.5°	432.0	430.1	431.7	434.0	431.0
165°	436.5	434.6	435.6	437.8	435.6
167.5°	440.1	438.1	439.1	441.4	438.5
170°	443.0	441.0	441.7	443.9	441.0
172.5°	444.9	443.0	443.6	445.9	443.0
175°	446.5	444.3	444.9	447.2	443.9
177.5°	447.2	444.9	445.2	447.5	444.6
180°	445.6	445.6	445.6	445.6	445.6

(END OF REPORT)