

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: P1010355

Luminaire Tested: S122RDIP-B865D725UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010355
REPORT IS A COMBINATION OF REPORTS P988770 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B865D725UB40-4F0-XX-W2A-F
Description: Define 2 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

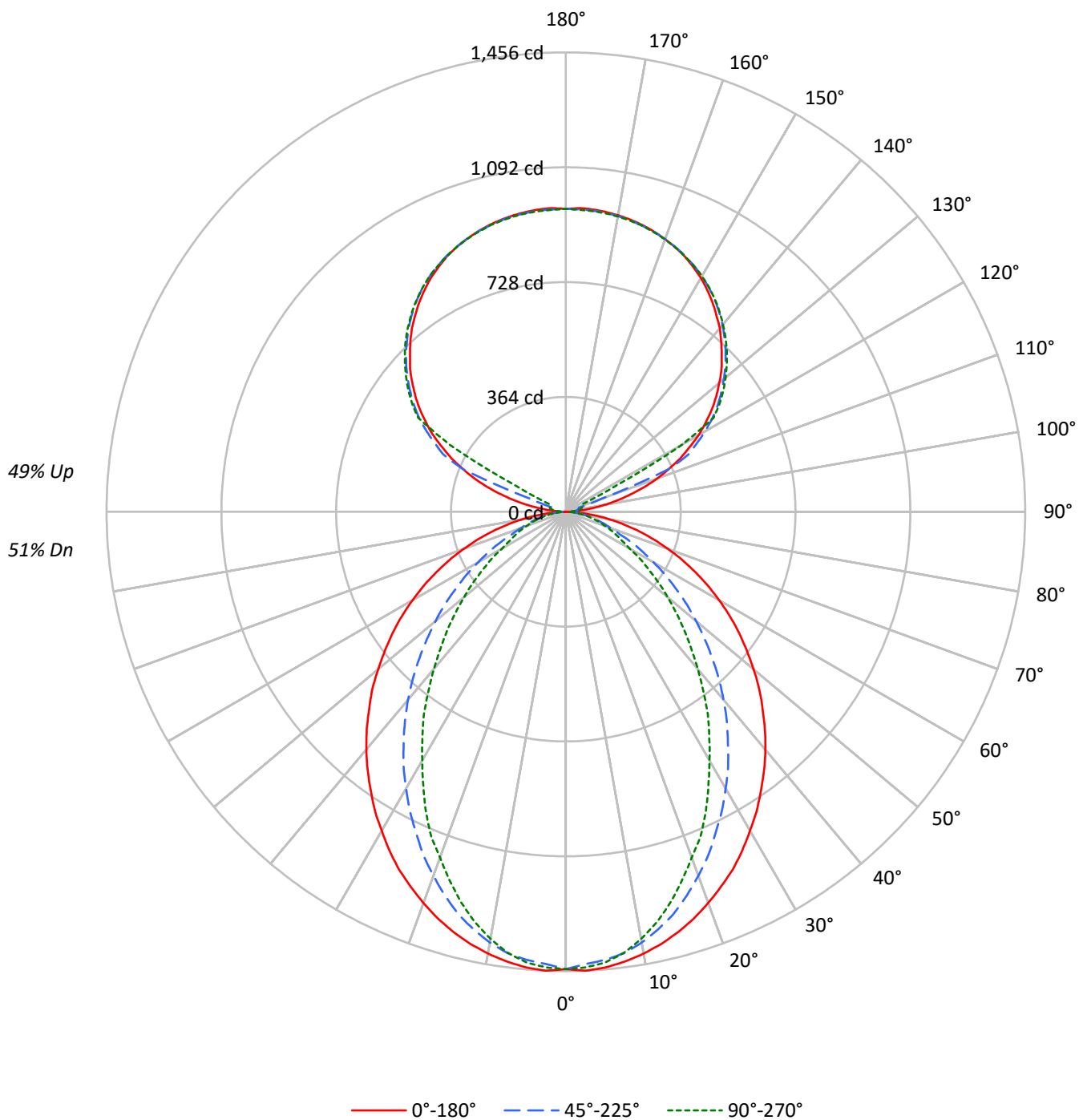
Lumens per Lamp: N/A
Luminaire Lumens: 5797.0 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57
1	99	94	91	87	91	88	84	81	75	72	70	63	61	59	52	50	49
2	90	83	77	72	83	77	72	68	66	62	59	56	53	50	46	44	42
3	83	73	66	61	76	68	62	57	59	54	50	50	46	43	41	39	37
4	76	65	58	52	70	61	54	49	52	47	43	44	41	38	37	34	32
5	70	58	51	45	64	55	48	42	47	42	38	40	36	33	34	31	28
6	64	53	45	39	60	49	42	37	43	37	33	36	32	29	31	28	25
7	60	48	40	34	55	45	38	33	39	33	29	33	29	26	28	25	23
8	56	43	36	31	51	41	34	29	36	30	26	31	26	23	26	23	20
9	52	40	32	27	48	37	31	26	33	27	24	28	24	21	24	21	18
10	48	37	29	25	45	34	28	24	30	25	21	26	22	19	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22945	22945	22945
5°	22982	21828	21666
10°	22755	20703	20020
15°	22442	19374	18143
20°	22028	17863	16179
25°	21605	16312	14383
30°	21034	14804	12420
35°	20477	13280	10736
40°	19911	11786	9001
45°	19252	10242	7487
50°	18569	8753	6096
55°	17861	7265	4840
60°	17035	5811	3662
65°	16086	4429	2976
70°	14941	3214	2367
75°	13504	2450	1807
80°	11417	1660	1213
85°	7967	759	586

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 19252 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	2.3
10°-20°	372.9	6.4
20°-30°	523.6	9.0
30°-40°	570.7	9.8
40°-50°	524.5	9.0
50°-60°	412.0	7.1
60°-70°	268.1	4.6
70°-80°	138.0	2.4
80°-90°	37.0	0.6
90°-100°	31.7	0.5
100°-110°	118.0	2.0
110°-120°	313.0	5.4
120°-130°	519.1	9.0
130°-140°	551.4	9.5
140°-150°	512.4	8.8
150°-160°	412.0	7.1
160°-170°	265.5	4.6
170°-180°	91.4	1.6
0°-30°	1032.3	17.8
0°-40°	1603.1	27.7
0°-60°	2539.6	43.8
0°-90°	2982.7	51.5
90°-120°	462.7	8.0
90°-150°	2045.5	35.3
90°-180°	2814.0	48.5
0°-180°	5797.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1450	1450	1450	1450	1450	
5°	1450	1443	1426	1438	1434	137
15°	1379	1364	1320	1295	1282	388
25°	1251	1209	1123	1069	1049	576
35°	1078	1011	896	813	784	675
45°	882	794	656	563	531	681
55°	670	568	426	348	323	599
65°	452	346	228	184	180	449
75°	241	150	105	96	94	255
85°	56	29	25	25	25	65
90°	1	8	14	17	19	5
95°	45	22	27	31	30	53
105°	211	232	42	50	53	226
115°	399	411	429	107	57	393
125°	565	574	587	592	594	504
135°	699	710	716	723	722	540
145°	811	810	822	827	823	507
155°	893	886	895	899	893	411
165°	940	936	938	943	938	266
175°	962	957	959	963	956	92
180°	960	960	960	960	960	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1449.5	1449.5	1449.5	1449.5	1449.5
2.5°	1456.0	1449.5	1435.0	1448.1	1445.5
5°	1449.5	1442.9	1425.8	1437.7	1433.7
7.5°	1437.7	1429.8	1411.4	1416.7	1410.1
10°	1421.9	1412.7	1386.5	1382.6	1374.7
12.5°	1402.2	1390.4	1355.0	1347.1	1332.7
15°	1378.6	1364.2	1319.6	1294.7	1281.6
17.5°	1351.1	1330.1	1275.0	1246.1	1225.2
20°	1319.6	1293.4	1227.8	1195.0	1166.1
22.5°	1285.5	1255.3	1179.2	1134.6	1115.0
25°	1251.4	1209.4	1122.8	1069.1	1049.4
27.5°	1210.7	1166.1	1070.4	1008.7	978.5
30°	1167.4	1117.6	1012.7	945.8	910.3
32.5°	1125.5	1065.1	957.6	878.9	846.1
35°	1078.2	1011.3	895.9	813.3	784.4
37.5°	1032.3	960.2	838.2	747.7	714.9
40°	983.8	905.1	777.9	684.7	650.6
42.5°	934.0	850.0	717.5	620.4	587.7
45°	881.5	793.6	655.9	562.7	531.2
47.5°	831.6	738.5	596.8	503.7	474.8
50°	776.5	683.4	539.1	448.6	421.1
52.5°	722.8	624.4	484.0	397.5	372.5
55°	670.3	568.0	426.3	347.6	322.7
57.5°	616.5	511.6	375.2	301.7	280.7
60°	561.4	456.5	321.4	254.5	233.5
62.5°	507.6	402.7	275.5	212.5	202.0
65°	452.5	346.3	228.2	183.6	179.7
67.5°	400.1	293.8	183.6	161.3	157.4
70°	345.0	242.7	152.2	139.0	133.8
72.5°	292.5	195.4	127.2	116.7	114.1
75°	241.4	149.5	104.9	95.8	94.4
77.5°	190.2	106.2	82.6	77.4	74.8
80°	143.0	76.1	63.0	57.7	57.7
82.5°	99.7	51.2	43.3	40.7	40.7
85°	56.4	28.9	24.9	24.9	24.9
87.5°	21.0	10.5	10.5	9.2	9.2
90°	0.7	8.3	13.9	17.4	18.8
92.5°	17.4	14.6	16.7	18.1	18.8
95°	45.2	22.2	27.1	30.6	29.9
97.5°	81.3	24.3	35.4	37.5	38.2
100°	122.9	27.8	39.6	45.2	46.5
102.5°	168.8	167.4	41.0	48.6	50.7
105°	211.2	232.0	42.4	50.0	52.8
107.5°	260.5	277.9	43.8	51.4	54.2
110°	307.7	322.3	121.6	52.1	54.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.2	364.7	352.9	53.5	55.6
115°	399.4	411.2	428.6	107.0	57.0
117.5°	440.4	454.3	466.1	366.8	184.8
120°	486.2	496.7	509.2	517.5	423.7
122.5°	525.1	536.3	550.1	554.3	555.0
125°	564.7	573.8	587.0	591.8	593.9
127.5°	600.9	610.6	621.0	627.9	628.6
130°	634.9	646.0	653.6	661.3	660.6
132.5°	669.6	678.7	686.3	692.5	691.8
135°	698.8	709.9	716.2	723.1	721.7
137.5°	729.4	737.7	744.6	751.6	749.5
140°	759.2	764.8	772.4	778.7	775.2
142.5°	784.2	789.1	798.1	803.7	800.2
145°	810.6	809.9	821.7	826.6	823.1
147.5°	833.6	831.5	843.3	846.8	844.0
150°	855.8	850.9	862.0	866.2	862.7
152.5°	874.5	869.0	879.4	883.6	878.7
155°	892.6	886.3	894.7	898.8	893.3
157.5°	907.2	901.6	907.9	912.7	907.2
160°	919.7	915.5	919.7	923.9	919.0
162.5°	930.8	926.6	930.1	935.0	928.7
165°	940.5	936.4	938.4	943.3	938.4
167.5°	948.2	944.0	946.1	950.9	944.7
170°	954.4	950.3	951.6	956.5	950.3
172.5°	958.6	954.4	955.8	960.7	954.4
175°	962.1	957.2	958.6	963.4	956.5
177.5°	963.4	958.6	959.3	964.1	957.9
180°	960.0	960.0	960.0	960.0	960.0

(END OF REPORT)