

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: P1010059

Luminaire Tested: S122RDIP-B485D725UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1010059
REPORT IS A COMBINATION OF REPORTS P988369 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122RDIP-B485D725UB40-4F0-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

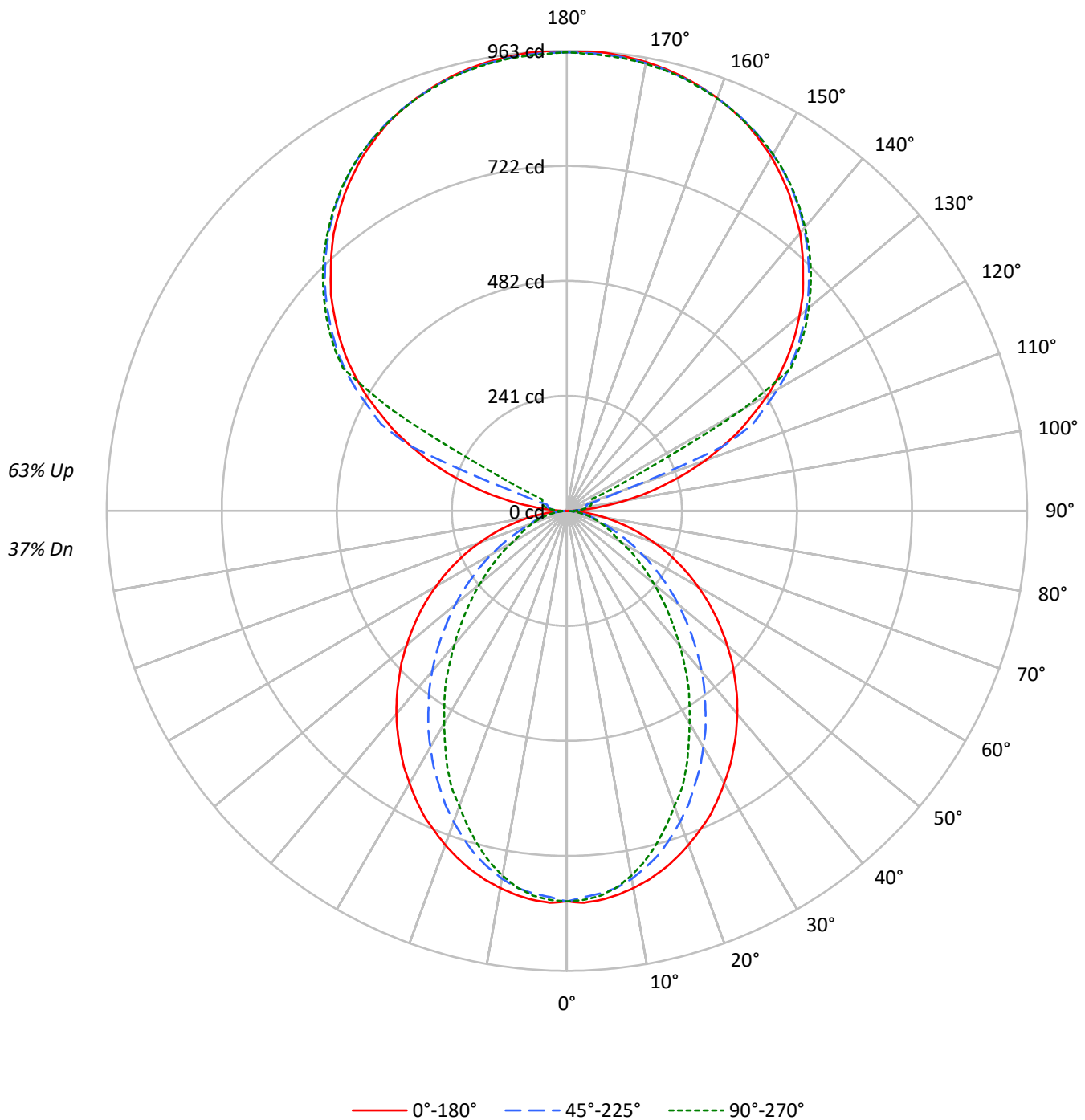
Lumens per Lamp: N/A
Luminaire Lumens: 4497.0 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 45.1
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	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45			37
1	95	91	88	84	86	83	80	77	67	65	63	53	52	50	40	39	38			32
2	87	80	74	69	79	73	68	64	59	56	53	47	45	43	36	34	33			28
3	80	71	64	58	72	64	58	54	53	48	45	42	39	36	32	30	28			24
4	73	63	55	49	66	57	51	46	47	42	39	38	34	32	29	26	25			21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22			18
6	62	50	42	37	56	46	39	34	38	33	29	31	27	24	24	21	19			16
7	57	45	38	32	52	42	35	30	35	30	26	28	24	22	22	19	17			15
8	53	41	34	29	48	38	31	27	32	27	23	26	22	19	20	17	16			13
9	49	38	30	26	45	35	28	24	29	24	21	24	20	17	19	16	14			12
10	46	35	28	23	42	32	26	21	27	22	19	22	18	16	17	15	13			11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12939	12939	12939
5°	12960	12308	12218
10°	12831	11675	11289
15°	12655	10925	10231
20°	12421	10072	9124
25°	12184	9199	8111
30°	11861	8347	7004
35°	11547	7489	6054
40°	11229	6645	5076
45°	10857	5774	4223
50°	10472	4936	3437
55°	10072	4097	2730
60°	9607	3276	2065
65°	9072	2498	1678
70°	8423	1812	1334
75°	7613	1383	1020
80°	6435	936	683
85°	4492	430	332

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10857 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.6	1.7
10°-20°	210.3	4.7
20°-30°	295.2	6.6
30°-40°	321.8	7.2
40°-50°	295.8	6.6
50°-60°	232.3	5.2
60°-70°	151.2	3.4
70°-80°	77.8	1.7
80°-90°	21.6	0.5
90°-100°	31.7	0.7
100°-110°	118.0	2.6
110°-120°	313.0	7.0
120°-130°	519.1	11.5
130°-140°	551.4	12.3
140°-150°	512.4	11.4
150°-160°	412.0	9.2
160°-170°	265.5	5.9
170°-180°	91.4	2.0
0°-30°	582.1	12.9
0°-40°	904.0	20.1
0°-60°	1432.1	31.8
0°-90°	1682.7	37.4
90°-120°	462.7	10.3
90°-150°	2045.5	45.5
90°-180°	2814.0	62.6
0°-180°	4497.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	817	817	817	817	817	
5°	817	814	804	811	808	78
15°	777	769	744	730	723	219
25°	706	682	633	603	592	325
35°	608	570	505	459	442	381
45°	497	448	370	317	300	384
55°	378	320	240	196	182	338
65°	255	195	129	104	101	253
75°	136	84	59	54	53	144
85°	32	16	14	14	14	36
90°	1	8	14	17	19	4
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°	817.4	817.4	817.4	817.4	817.4
2.5°	821.1	817.4	809.2	816.6	815.1
5°	817.4	813.7	804.0	810.7	808.5
7.5°	810.7	806.3	795.9	798.9	795.2
10°	801.8	796.6	781.9	779.6	775.2
12.5°	790.7	784.1	764.1	759.7	751.5
15°	777.4	769.3	744.1	730.1	722.7
17.5°	761.9	750.0	719.0	702.7	690.9
20°	744.1	729.3	692.3	673.9	657.6
22.5°	724.9	707.9	665.0	639.8	628.7
25°	705.7	682.0	633.2	602.8	591.8
27.5°	682.7	657.6	603.6	568.8	551.8
30°	658.3	630.2	571.0	533.3	513.3
32.5°	634.7	600.6	540.0	495.6	477.1
35°	608.0	570.3	505.2	458.6	442.3
37.5°	582.1	541.5	472.7	421.6	403.1
40°	554.8	510.4	438.6	386.1	366.9
42.5°	526.7	479.3	404.6	349.9	331.4
45°	497.1	447.5	369.8	317.3	299.6
47.5°	469.0	416.4	336.6	284.0	267.8
50°	437.9	385.4	304.0	253.0	237.4
52.5°	407.6	352.1	272.9	224.1	210.1
55°	378.0	320.3	240.4	196.0	182.0
57.5°	347.7	288.5	211.6	170.1	158.3
60°	316.6	257.4	181.2	143.5	131.7
62.5°	286.3	227.1	155.3	119.8	113.9
65°	255.2	195.3	128.7	103.6	101.3
67.5°	225.6	165.7	103.6	91.0	88.8
70°	194.5	136.8	85.8	78.4	75.4
72.5°	165.0	110.2	71.7	65.8	64.4
75°	136.1	84.3	59.2	54.0	53.3
77.5°	107.3	59.9	46.6	43.6	42.2
80°	80.6	42.9	35.5	32.5	32.5
82.5°	56.2	28.8	24.4	22.9	22.9
85°	31.8	16.3	14.1	14.1	14.1
87.5°	11.8	5.9	5.9	5.2	5.2
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)