

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: P1008929

Luminaire Tested: S122DIP-B290D725UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008929
REPORT IS A COMBINATION OF REPORTS P984044 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D725UB40-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

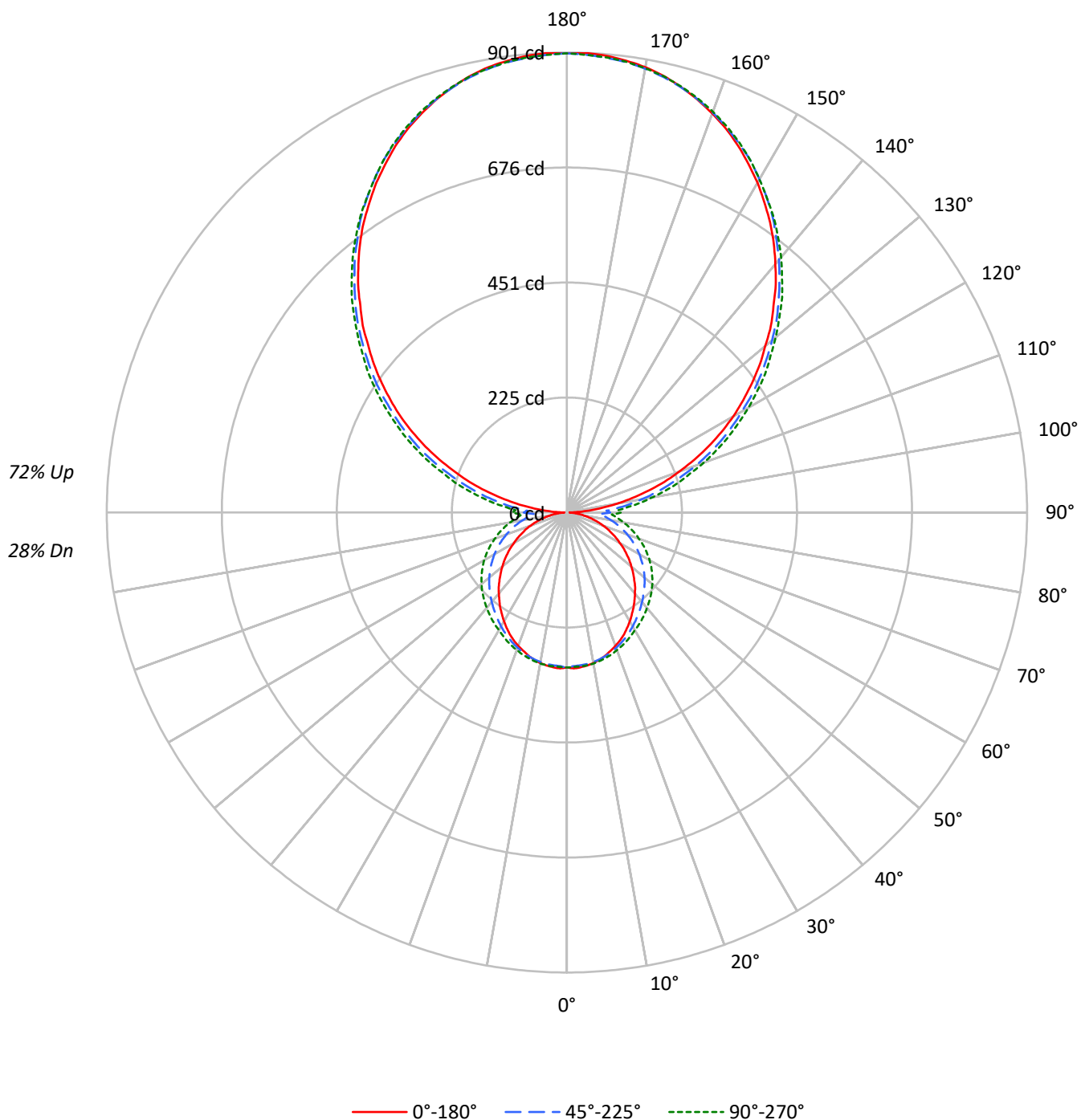
Lumens per Lamp: N/A
Luminaire Lumens: 3675.0 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 34.1
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	92	87	83	80	82	78	75	72	61	59	56	45	44	42	30	29	29
2	83	76	70	64	74	68	63	58	53	49	46	39	37	34	26	25	23
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	20
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	17
5	63	52	44	38	56	46	39	34	36	31	27	27	24	21	18	16	14
6	58	46	38	32	52	41	35	30	33	27	24	24	21	18	16	14	12
7	54	41	34	28	48	37	30	26	29	24	21	22	18	16	15	13	11
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	13	10	9
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4804	4804	4804
5°	4826	4599	4573
10°	4793	4439	4375
15°	4726	4275	4172
20°	4641	4101	3979
25°	4556	3936	3803
30°	4438	3767	3631
35°	4319	3605	3504
40°	4194	3465	3377
45°	4073	3338	3267
50°	3943	3221	3159
55°	3808	3097	3048
60°	3644	2967	2931
65°	3470	2816	2797
70°	3278	2657	2654
75°	3026	2497	2517
80°	2635	2330	2376
85°	2232	2174	2255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	0.8
10°-20°	82.5	2.2
20°-30°	125.0	3.4
30°-40°	152.2	4.1
40°-50°	163.8	4.5
50°-60°	159.1	4.3
60°-70°	138.9	3.8
70°-80°	106.9	2.9
80°-90°	74.2	2.0
90°-100°	105.1	2.9
100°-110°	213.0	5.8
110°-120°	326.5	8.9
120°-130°	411.3	11.2
130°-140°	452.3	12.3
140°-150°	439.1	11.9
150°-160°	367.5	10.0
160°-170°	243.7	6.6
170°-180°	85.2	2.3
0°-30°	236.3	6.4
0°-40°	388.5	10.6
0°-60°	711.5	19.4
0°-90°	1031.5	28.1
90°-120°	644.5	17.5
90°-150°	1947.2	53.0
90°-180°	2644.0	71.9
0°-180°	3675.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	304	303	300	303	303	29
15°	290	291	291	295	295	82
25°	264	267	271	276	278	121
35°	227	235	243	253	256	142
45°	186	198	214	227	232	144
55°	143	159	182	198	203	128
65°	98	119	145	163	169	97
75°	54	79	107	126	132	57
85°	16	43	71	90	96	17
90°	5	40	85	101	107	6
95°	43	71	99	116	120	47
105°	165	180	205	222	227	175
115°	305	315	333	346	348	302
125°	443	449	461	471	474	396
135°	572	580	586	595	596	442
145°	694	699	704	707	706	434
155°	793	795	798	802	799	365
165°	863	862	862	868	864	243
175°	898	896	894	899	895	85
180°	899	899	899	899	899	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	303.5	303.5	303.5	303.5	303.5
2.5°	305.7	304.4	301.3	303.5	302.6
5°	304.4	303.0	300.4	303.0	302.6
7.5°	302.2	301.3	299.1	302.2	301.7
10°	299.5	298.6	297.3	300.8	300.4
12.5°	295.1	295.6	294.7	298.2	297.8
15°	290.3	291.2	291.2	295.1	294.7
17.5°	284.1	285.9	287.2	291.2	291.2
20°	278.0	280.2	281.9	286.8	286.8
22.5°	271.4	274.0	276.7	281.5	282.4
25°	263.9	267.0	270.9	276.2	277.5
27.5°	255.1	259.9	264.3	270.9	271.8
30°	246.3	252.0	257.7	264.8	266.1
32.5°	236.6	243.2	250.3	258.6	261.3
35°	227.4	234.9	243.2	252.9	256.0
37.5°	217.3	225.6	236.2	246.7	249.8
40°	207.2	216.8	228.7	240.2	244.1
42.5°	197.5	207.2	221.2	234.0	238.0
45°	186.5	198.4	213.8	227.4	231.8
47.5°	175.9	188.7	206.3	220.4	225.2
50°	164.9	178.6	198.4	213.3	218.2
52.5°	154.4	168.9	190.0	205.4	210.7
55°	142.9	158.8	181.7	197.5	203.2
57.5°	132.0	149.5	172.4	189.6	195.3
60°	120.1	139.0	164.1	180.8	186.9
62.5°	109.5	129.3	154.4	172.4	178.1
65°	97.6	119.2	145.1	163.2	168.9
67.5°	87.1	109.5	135.9	153.9	160.1
70°	75.7	98.5	125.8	144.7	150.0
72.5°	65.1	88.8	116.6	135.0	141.6
75°	54.1	78.7	106.9	125.8	131.5
77.5°	43.5	69.1	97.6	116.6	122.7
80°	33.0	59.8	88.4	106.9	113.0
82.5°	24.2	50.6	79.6	98.1	103.8
85°	15.8	43.1	71.3	89.7	95.9
87.5°	9.7	36.1	64.2	82.2	88.0
90°	5.2	39.8	84.7	100.7	106.7
92.5°	20.7	50.1	77.6	95.6	100.8
95°	43.0	71.3	99.2	115.9	119.7
97.5°	69.1	94.9	123.4	139.7	145.0
100°	99.5	121.9	148.7	165.0	169.1
102.5°	130.9	150.0	176.8	193.3	197.5
105°	165.4	180.5	204.8	221.7	226.6
107.5°	200.3	213.9	235.8	251.6	252.6
110°	233.3	246.6	268.1	282.2	284.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.7	281.3	300.7	312.5	315.8
115°	305.4	314.7	333.0	345.5	348.0
117.5°	340.6	350.1	364.8	375.8	377.9
120°	376.2	384.1	395.6	407.9	410.4
122.5°	408.9	416.9	429.4	439.0	441.5
125°	442.6	449.4	461.3	470.8	474.0
127.5°	476.0	483.9	492.7	500.7	502.4
130°	507.1	516.5	524.3	533.3	533.8
132.5°	542.0	549.1	556.5	562.9	564.1
135°	571.9	580.2	586.2	594.7	595.9
137.5°	605.3	612.1	615.8	623.5	623.5
140°	634.9	641.3	646.0	653.0	652.7
142.5°	665.2	671.7	674.0	680.0	679.2
145°	693.7	699.0	703.6	706.9	706.1
147.5°	719.5	726.3	729.4	731.3	729.6
150°	746.1	750.6	753.6	755.9	753.6
152.5°	769.6	774.1	777.9	781.0	777.9
155°	793.1	795.4	797.7	801.5	799.2
157.5°	813.6	815.1	816.6	821.9	818.2
160°	831.8	833.3	834.1	838.6	835.6
162.5°	848.5	848.5	849.3	854.6	850.8
165°	862.9	862.2	862.2	867.5	863.7
167.5°	875.8	873.6	873.6	878.9	875.1
170°	885.7	883.4	882.7	888.0	883.4
172.5°	892.5	890.3	889.5	894.8	890.3
175°	897.8	895.6	894.0	899.4	894.8
177.5°	900.9	898.6	897.1	901.6	897.1
180°	899.4	899.4	899.4	899.4	899.4

(END OF REPORT)