

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: P1008930

Luminaire Tested: S122DIP-B290D725UB40-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008930
REPORT IS A COMBINATION OF REPORTS P984045 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-D4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

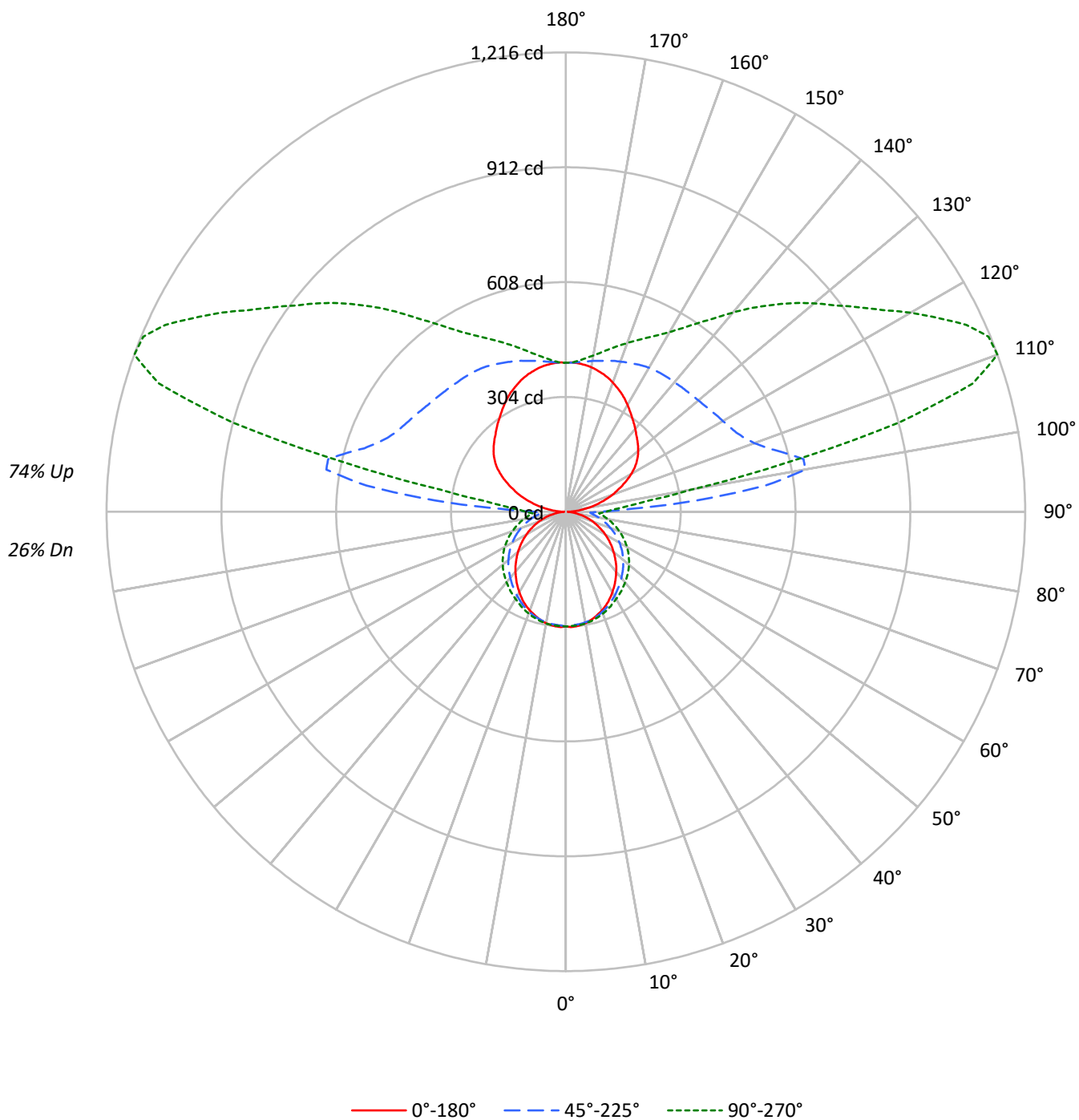
Lumens per Lamp: N/A
Luminaire Lumens: 3913.2 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	70	70	70	52	52	52	34	34	34
1	92	87	83	79	82	78	74	71	60	58	56	44	43	41	29	28	27
2	83	76	69	64	74	67	62	58	52	49	45	38	36	34	25	24	22
3	76	66	59	53	67	59	53	48	46	41	38	33	31	28	22	20	19
4	69	58	50	44	61	52	45	40	40	36	32	30	26	24	19	18	16
5	63	52	44	38	56	46	39	34	36	31	27	26	23	20	17	15	14
6	58	46	38	32	51	41	34	29	32	27	23	24	20	18	16	14	12
7	53	41	34	28	47	37	30	26	29	24	20	21	18	15	14	12	10
8	49	37	30	25	44	34	27	22	26	21	18	19	16	14	13	11	9
9	46	34	27	22	41	30	24	20	24	19	16	18	14	12	12	10	8
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	7

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	0.7
10°-20°	82.5	2.1
20°-30°	125.0	3.2
30°-40°	152.2	3.9
40°-50°	163.8	4.2
50°-60°	159.1	4.1
60°-70°	138.9	3.6
70°-80°	106.9	2.7
80°-90°	74.1	1.9
90°-100°	209.5	5.4
100°-110°	577.2	14.7
110°-120°	592.6	15.1
120°-130°	481.0	12.3
130°-140°	381.4	9.7
140°-150°	284.8	7.3
150°-160°	199.6	5.1
160°-170°	117.5	3.0
170°-180°	38.2	1.0
0°-30°	236.3	6.0
0°-40°	388.5	9.9
0°-60°	711.5	18.2
0°-90°	1031.4	26.4
90°-120°	1379.2	35.2
90°-150°	2526.4	64.6
90°-180°	2882.0	73.6
0°-180°	3913.2	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	84	100	106	5
95°	30	90	348	180	159	30
105°	95	155	600	1059	914	101
115°	165	213	497	1011	1170	163
125°	229	270	468	814	944	203
135°	268	319	452	675	775	207
145°	305	351	445	555	609	192
155°	347	375	432	489	508	160
165°	378	390	414	439	446	107
175°	394	394	398	403	402	37
180°	395	395	395	395	395	

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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	40.2	83.9	100.4	106.0
92.5°	15.4	63.4	171.0	125.2	122.8
95°	30.1	89.5	348.2	179.6	159.2
97.5°	42.6	108.2	532.7	289.3	214.1
100°	61.6	125.0	643.8	509.4	336.9
102.5°	78.5	140.2	644.5	816.0	591.6
105°	94.8	154.7	600.4	1058.9	913.8
107.5°	113.1	169.2	559.3	1144.6	1129.6
110°	130.9	184.1	530.9	1126.6	1215.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.6	198.6	511.1	1074.6	1211.1
115°	165.0	212.8	497.1	1011.1	1170.4
117.5°	182.8	227.2	488.0	950.6	1110.7
120°	199.5	241.5	480.0	895.8	1053.7
122.5°	215.4	256.5	474.3	853.0	993.6
125°	228.7	270.4	467.5	813.8	944.2
127.5°	240.1	284.0	462.5	779.5	897.4
130°	249.9	296.5	458.4	745.2	858.2
132.5°	259.0	308.6	455.0	710.1	817.9
135°	267.7	319.3	452.0	675.4	774.6
137.5°	276.0	328.4	449.8	640.4	732.3
140°	285.9	336.4	447.3	609.2	688.6
142.5°	295.7	343.2	446.4	579.7	645.3
145°	305.2	350.8	444.9	554.9	609.2
147.5°	315.8	356.8	442.6	533.4	576.6
150°	326.5	363.0	440.4	516.3	548.9
152.5°	337.1	369.0	436.6	502.2	526.9
155°	347.0	374.7	432.0	488.6	507.9
157.5°	355.3	379.2	427.5	475.7	491.2
160°	363.7	383.8	422.9	462.8	475.3
162.5°	372.0	387.2	419.1	450.6	460.1
165°	378.1	389.5	413.8	438.8	445.7
167.5°	383.4	391.8	409.2	428.2	432.0
170°	388.7	393.0	405.4	418.4	419.9
172.5°	391.8	394.0	400.9	409.6	410.0
175°	394.1	394.5	397.8	402.8	401.6
177.5°	395.6	394.8	394.8	397.8	395.6
180°	394.8	394.8	394.8	394.8	394.8

(END OF REPORT)