

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: P1008912

Luminaire Tested: S122DIP-B290D725UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008912
REPORT IS A COMBINATION OF REPORTS P984027 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D725UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

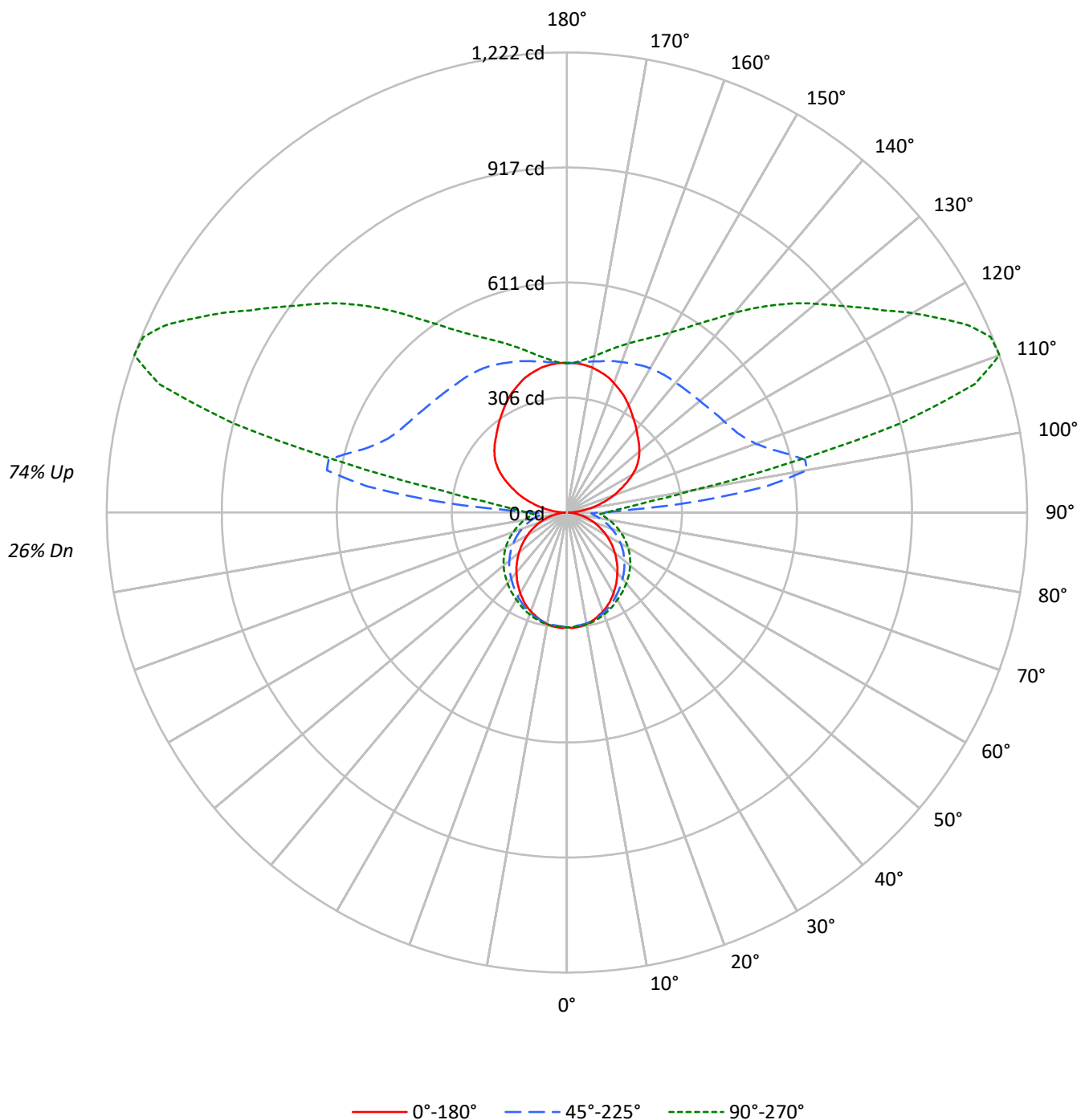
Lumens per Lamp: N/A
Luminaire Lumens: 3934.2 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	4830	4830	4830
5°	4850	4623	4597
10°	4818	4463	4398
15°	4750	4297	4193
20°	4664	4123	4000
25°	4580	3956	3824
30°	4461	3788	3650
35°	4341	3624	3522
40°	4214	3483	3395
45°	4095	3356	3284
50°	3965	3237	3175
55°	3829	3112	3064
60°	3663	2981	2947
65°	3487	2832	2812
70°	3291	2670	2668
75°	3043	2509	2530
80°	2651	2343	2388
85°	2246	2183	2267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4095 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.7
10°-20°	82.9	2.1
20°-30°	125.7	3.2
30°-40°	153.0	3.9
40°-50°	164.7	4.2
50°-60°	159.9	4.1
60°-70°	139.6	3.5
70°-80°	107.5	2.7
80°-90°	74.5	1.9
90°-100°	210.6	5.4
100°-110°	580.3	14.8
110°-120°	595.8	15.1
120°-130°	483.6	12.3
130°-140°	383.5	9.7
140°-150°	286.4	7.3
150°-160°	200.7	5.1
160°-170°	118.2	3.0
170°-180°	38.4	1.0
0°-30°	237.5	6.0
0°-40°	390.6	9.9
0°-60°	715.1	18.2
0°-90°	1036.8	26.4
90°-120°	1386.7	35.2
90°-150°	2540.1	64.6
90°-180°	2897.0	73.6
0°-180°	3934.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	305	302	305	304	29
15°	292	293	293	297	296	82
25°	265	268	272	278	279	122
35°	229	236	244	254	257	143
45°	188	199	215	229	233	145
55°	144	160	183	198	204	129
65°	98	120	146	164	170	98
75°	54	79	107	126	132	58
85°	16	43	72	90	96	17
90°	5	40	84	101	106	5
95°	30	90	350	181	160	30
105°	95	156	604	1065	919	101
115°	166	214	500	1017	1177	164
125°	230	272	470	818	949	205
135°	269	321	454	679	779	208
145°	307	353	447	558	613	193
155°	349	377	434	491	511	161
165°	380	392	416	441	448	107
175°	396	397	400	405	404	38
180°	397	397	397	397	397	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.1	305.1	305.1	305.1	305.1
2.5°	307.3	305.9	302.8	305.1	304.2
5°	305.9	304.6	302.0	304.6	304.2
7.5°	303.7	302.8	300.6	303.7	303.3
10°	301.1	300.2	298.9	302.4	302.0
12.5°	296.7	297.1	296.2	299.8	299.3
15°	291.8	292.7	292.7	296.7	296.2
17.5°	285.6	287.4	288.7	292.7	292.7
20°	279.4	281.6	283.4	288.3	288.3
22.5°	272.8	275.4	278.1	283.0	283.8
25°	265.3	268.4	272.3	277.6	279.0
27.5°	256.4	261.3	265.7	272.3	273.2
30°	247.6	253.3	259.1	266.2	267.5
32.5°	237.9	244.5	251.6	260.0	262.6
35°	228.6	236.1	244.5	254.2	257.3
37.5°	218.4	226.8	237.4	248.0	251.1
40°	208.2	218.0	229.9	241.4	245.4
42.5°	198.5	208.2	222.4	235.2	239.2
45°	187.5	199.4	214.9	228.6	233.0
47.5°	176.8	189.7	207.4	221.5	226.4
50°	165.8	179.5	199.4	214.4	219.3
52.5°	155.2	169.8	191.0	206.5	211.8
55°	143.7	159.6	182.6	198.5	204.3
57.5°	132.6	150.3	173.3	190.6	196.3
60°	120.7	139.7	164.9	181.7	187.9
62.5°	110.1	130.0	155.2	173.3	179.1
65°	98.1	119.8	145.9	164.0	169.8
67.5°	87.5	110.1	136.6	154.7	160.9
70°	76.0	99.0	126.4	145.5	150.8
72.5°	65.4	89.3	117.2	135.7	142.4
75°	54.4	79.1	107.4	126.4	132.2
77.5°	43.8	69.4	98.1	117.2	123.4
80°	33.2	60.1	88.9	107.4	113.6
82.5°	24.3	50.8	80.0	98.6	104.3
85°	15.9	43.3	71.6	90.2	96.4
87.5°	9.7	36.3	64.5	82.7	88.4
90°	5.2	40.4	84.4	100.8	106.5
92.5°	15.5	63.7	172.0	125.8	123.5
95°	30.2	90.0	350.0	180.6	159.9
97.5°	42.8	108.8	535.5	290.8	215.2
100°	61.9	125.6	647.3	512.2	338.7
102.5°	79.0	140.9	648.0	820.4	594.7
105°	95.3	155.5	603.7	1064.6	918.7
107.5°	113.7	170.0	562.4	1150.8	1135.8
110°	131.6	185.0	533.8	1132.7	1222.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	148.4	199.7	514.0	1080.4	1217.7
115°	165.9	213.9	499.8	1016.6	1176.8
117.5°	183.7	228.6	490.6	955.8	1116.7
120°	200.5	242.8	482.6	900.8	1059.4
122.5°	216.6	257.9	476.9	857.6	998.9
125°	229.9	271.9	470.0	818.2	949.3
127.5°	241.4	285.5	465.1	783.8	902.2
130°	251.3	298.1	460.9	749.3	862.9
132.5°	260.5	310.3	457.5	713.8	822.4
135°	269.1	321.0	454.5	679.0	778.8
137.5°	277.5	330.2	452.3	643.9	736.3
140°	287.4	338.2	449.8	612.6	692.3
142.5°	297.4	345.0	448.9	582.8	648.7
145°	306.9	352.7	447.3	558.0	612.6
147.5°	317.6	358.8	445.1	536.3	579.7
150°	328.3	364.9	442.8	519.1	551.9
152.5°	338.9	371.0	438.9	505.0	529.8
155°	348.9	376.8	434.4	491.2	510.7
157.5°	357.3	381.3	429.8	478.2	493.9
160°	365.7	385.9	425.2	465.3	477.9
162.5°	374.1	389.4	421.4	453.1	462.6
165°	380.2	391.6	416.0	441.2	448.1
167.5°	385.5	393.9	411.5	430.6	434.4
170°	390.9	395.0	407.6	420.6	422.2
172.5°	393.9	396.2	403.1	411.8	412.2
175°	396.2	396.6	400.0	405.0	403.8
177.5°	397.7	397.0	397.0	400.0	397.7
180°	397.0	397.0	397.0	397.0	397.0

(END OF REPORT)