

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: P1008937

Luminaire Tested: S122DIP-B290D725UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008937
REPORT IS A COMBINATION OF REPORTS P984052 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D725UB50-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

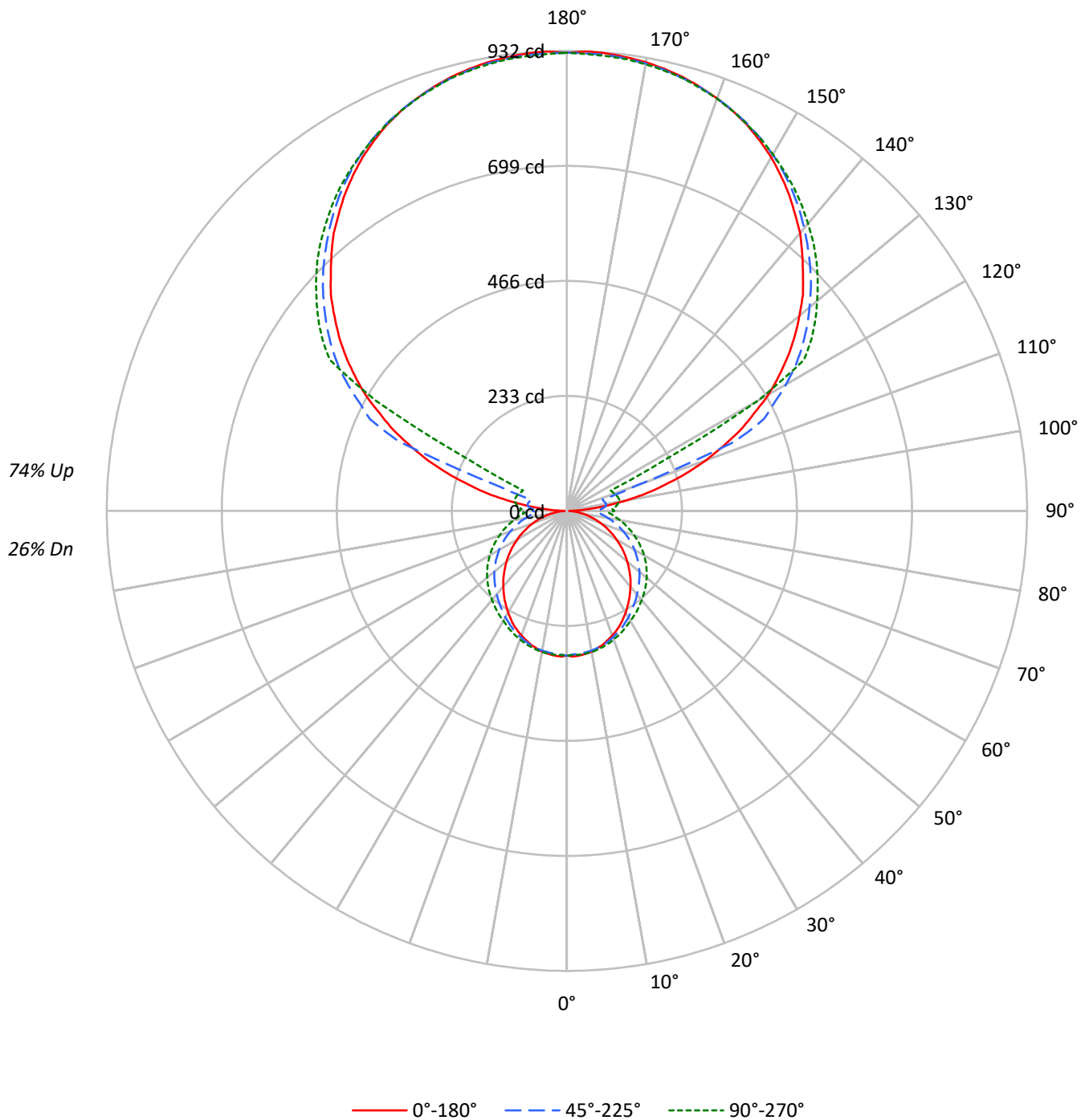
Lumens per Lamp: N/A
Luminaire Lumens: 3842.1 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34
1	92	87	83	79	81	78	74	71	60	58	56	44	42	41	29	28	27
2	83	76	69	64	74	67	62	58	52	48	45	38	36	33	25	23	22
3	76	66	59	53	67	59	53	48	46	41	38	33	30	28	22	20	19
4	69	58	50	44	61	52	45	40	40	36	32	29	26	24	19	17	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	13	12
7	53	41	34	28	47	37	30	25	29	24	20	21	18	15	14	12	10
8	49	37	30	25	44	33	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	17	22	17	14	16	13	11	11	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4643	4643	4643
5°	4663	4444	4419
10°	4631	4290	4228
15°	4566	4131	4032
20°	4484	3963	3845
25°	4402	3803	3676
30°	4288	3641	3508
35°	4172	3483	3386
40°	4052	3348	3264
45°	3936	3226	3157
50°	3812	3112	3052
55°	3680	2991	2946
60°	3520	2866	2832
65°	3356	2723	2703
70°	3166	2568	2563
75°	2926	2413	2433
80°	2547	2250	2296
85°	2161	2101	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3936 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	27.8	0.7
10°-20°	79.7	2.1
20°-30°	120.8	3.1
30°-40°	147.1	3.8
40°-50°	158.3	4.1
50°-60°	153.7	4.0
60°-70°	134.3	3.5
70°-80°	103.3	2.7
80°-90°	70.9	1.8
90°-100°	78.4	2.0
100°-110°	149.0	3.9
110°-120°	325.6	8.5
120°-130°	514.8	13.4
130°-140°	538.5	14.0
140°-150°	496.4	12.9
150°-160°	398.4	10.4
160°-170°	256.7	6.7
170°-180°	88.4	2.3
0°-30°	228.3	5.9
0°-40°	375.5	9.8
0°-60°	687.5	17.9
0°-90°	995.9	25.9
90°-120°	553.0	14.4
90°-150°	2102.7	54.7
90°-180°	2846.0	74.1
0°-180°	3842.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	293	293	293	293	293	
5°	294	293	290	293	292	28
15°	280	281	281	285	285	79
25°	255	258	262	267	268	117
35°	220	227	235	244	247	137
45°	180	192	207	220	224	139
55°	138	153	176	191	196	124
65°	94	115	140	158	163	94
75°	52	76	103	122	127	55
85°	15	42	69	87	93	16
90°	5	37	70	90	96	5
95°	47	45	75	95	99	54
105°	206	239	78	100	107	221
115°	388	404	440	142	98	382
125°	547	556	582	598	604	488
135°	676	687	697	713	715	522
145°	784	783	795	802	801	490
155°	863	857	865	869	864	398
165°	910	905	907	912	907	257
175°	930	926	927	932	925	89
180°	928	928	928	928	928	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	293.3	293.3	293.3	293.3	293.3
2.5°	295.4	294.1	291.1	293.3	292.4
5°	294.1	292.8	290.3	292.8	292.4
7.5°	292.0	291.1	289.0	292.0	291.6
10°	289.4	288.6	287.3	290.7	290.3
12.5°	285.2	285.6	284.8	288.2	287.7
15°	280.5	281.4	281.4	285.2	284.8
17.5°	274.6	276.3	277.5	281.4	281.4
20°	268.6	270.7	272.4	277.1	277.1
22.5°	262.2	264.8	267.3	272.0	272.9
25°	255.0	258.0	261.8	266.9	268.2
27.5°	246.5	251.2	255.4	261.8	262.7
30°	238.0	243.5	249.1	255.9	257.1
32.5°	228.7	235.0	241.8	249.9	252.5
35°	219.7	227.0	235.0	244.4	247.4
37.5°	210.0	218.0	228.2	238.4	241.4
40°	200.2	209.5	221.0	232.1	235.9
42.5°	190.8	200.2	213.8	226.1	229.9
45°	180.2	191.7	206.6	219.7	224.0
47.5°	170.0	182.3	199.3	212.9	217.6
50°	159.4	172.6	191.7	206.1	210.8
52.5°	149.2	163.2	183.6	198.5	203.6
55°	138.1	153.4	175.5	190.8	196.4
57.5°	127.5	144.5	166.6	183.2	188.7
60°	116.0	134.3	158.5	174.7	180.6
62.5°	105.8	125.0	149.2	166.6	172.1
65°	94.4	115.2	140.3	157.7	163.2
67.5°	84.2	105.8	131.3	148.8	154.7
70°	73.1	95.2	121.6	139.8	144.9
72.5°	62.9	85.9	112.6	130.5	136.9
75°	52.3	76.1	103.3	121.6	127.1
77.5°	42.1	66.7	94.4	112.6	118.6
80°	31.9	57.8	85.4	103.3	109.2
82.5°	23.4	48.9	76.9	94.8	100.3
85°	15.3	41.7	68.9	86.7	92.7
87.5°	9.4	34.9	62.1	79.5	85.0
90°	5.0	37.0	69.5	89.9	96.3
92.5°	20.6	40.5	68.4	86.4	92.1
95°	47.1	44.9	75.1	94.6	99.0
97.5°	81.6	44.8	80.2	97.9	103.6
100°	121.9	45.6	80.8	101.9	107.9
102.5°	165.8	178.5	79.1	101.8	108.5
105°	206.3	238.8	77.6	99.8	107.1
107.5°	254.0	281.0	75.9	97.7	105.1
110°	299.3	321.9	148.5	95.0	102.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	342.2	361.1	369.3	93.4	100.0
115°	387.9	404.0	439.9	141.7	98.0
117.5°	427.1	444.0	473.2	390.0	218.2
120°	471.5	483.3	512.3	532.3	446.3
122.5°	509.1	520.2	549.4	564.9	569.4
125°	547.0	555.7	582.1	598.2	604.1
127.5°	581.9	590.8	612.4	629.7	634.3
130°	614.8	625.1	641.5	659.0	661.8
132.5°	648.4	656.6	670.4	686.3	689.0
135°	676.1	686.9	697.2	712.8	714.9
137.5°	705.7	713.7	722.6	737.4	738.4
140°	734.6	739.5	747.8	760.7	759.8
142.5°	758.7	763.0	771.8	782.2	781.0
145°	783.9	783.2	794.6	801.9	800.6
147.5°	806.0	804.0	815.4	819.2	817.8
150°	827.5	822.8	833.6	837.6	834.2
152.5°	845.7	840.3	850.4	854.4	849.7
155°	863.1	857.1	865.1	869.2	863.8
157.5°	877.2	871.8	877.9	882.6	877.2
160°	889.3	885.3	889.3	893.3	888.6
162.5°	900.1	896.0	899.4	904.1	898.0
165°	909.5	905.4	907.4	912.2	907.4
167.5°	916.9	912.8	914.8	919.5	913.5
170°	922.9	918.9	920.2	924.9	918.9
172.5°	926.9	922.9	924.2	928.9	922.9
175°	930.3	925.6	926.9	931.6	924.9
177.5°	931.6	926.9	927.6	932.3	926.3
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)