

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: P1008901

Luminaire Tested: S122DIP-B290D725UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008901
REPORT IS A COMBINATION OF REPORTS P984001 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D725UB27-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

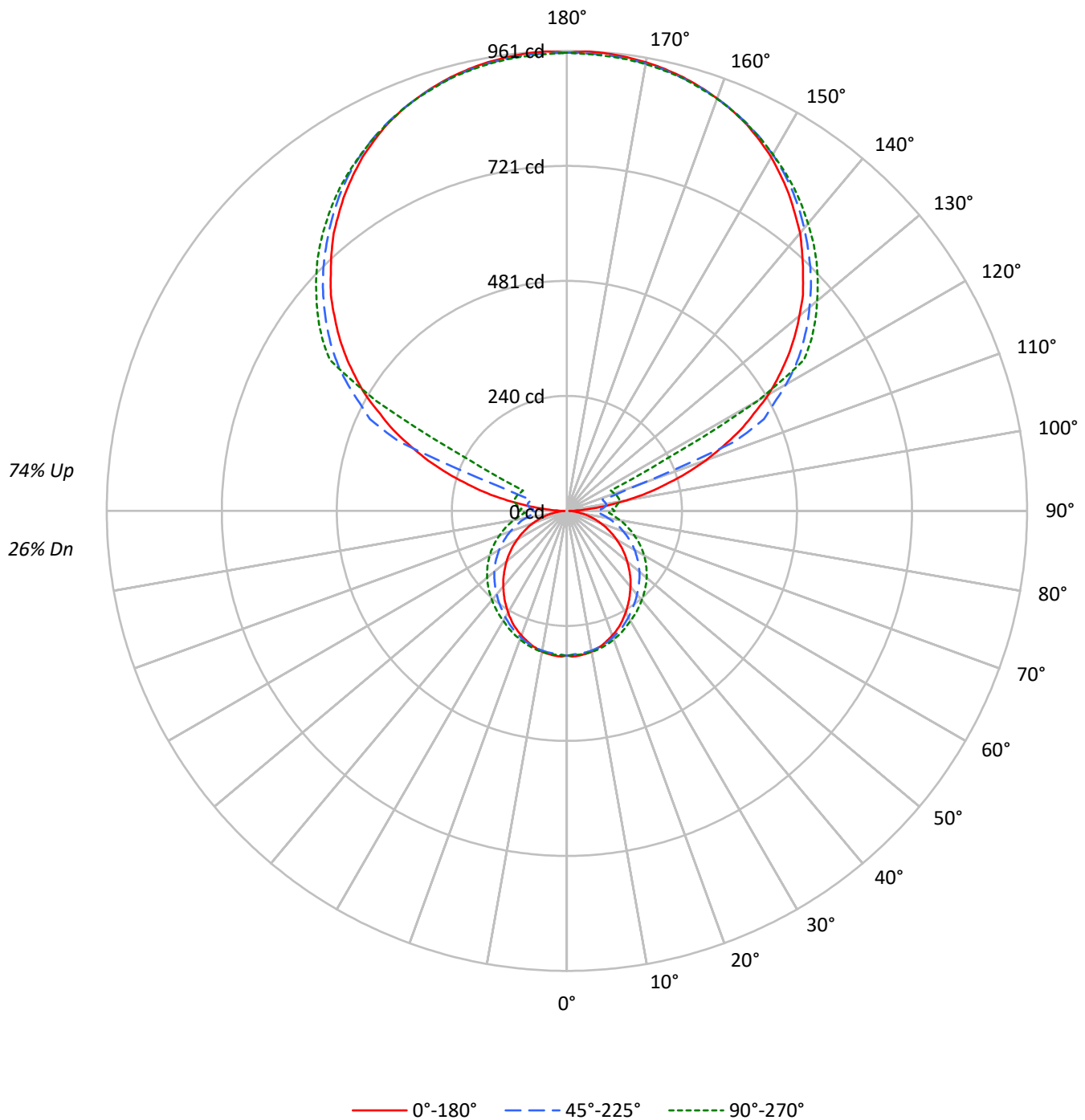
Lumens per Lamp: N/A
Luminaire Lumens: 3962.0 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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°	4787	4787	4787
5°	4809	4584	4558
10°	4777	4424	4360
15°	4709	4261	4158
20°	4624	4088	3965
25°	4541	3923	3791
30°	4423	3755	3618
35°	4303	3593	3491
40°	4177	3453	3366
45°	4058	3326	3256
50°	3931	3210	3147
55°	3797	3085	3037
60°	3632	2956	2921
65°	3459	2806	2787
70°	3265	2648	2645
75°	3015	2488	2509
80°	2627	2322	2367
85°	2232	2165	2248

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4058 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.7	0.7
10°-20°	82.2	2.1
20°-30°	124.6	3.1
30°-40°	151.7	3.8
40°-50°	163.2	4.1
50°-60°	158.5	4.0
60°-70°	138.4	3.5
70°-80°	106.6	2.7
80°-90°	73.0	1.8
90°-100°	80.8	2.0
100°-110°	153.6	3.9
110°-120°	335.8	8.5
120°-130°	530.8	13.4
130°-140°	555.3	14.0
140°-150°	511.9	12.9
150°-160°	410.8	10.4
160°-170°	264.7	6.7
170°-180°	91.1	2.3
0°-30°	235.5	5.9
0°-40°	387.2	9.8
0°-60°	709.0	17.9
0°-90°	1027.0	25.9
90°-120°	570.2	14.4
90°-150°	2168.3	54.7
90°-180°	2935.0	74.1
0°-180°	3962.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	302	302	302	302	302	
5°	303	302	299	302	302	29
15°	289	290	290	294	294	81
25°	263	266	270	275	277	121
35°	227	234	242	252	255	142
45°	186	198	213	227	231	143
55°	142	158	181	197	202	127
65°	97	119	145	163	168	97
75°	54	78	106	125	131	57
85°	16	43	71	89	96	17
90°	5	38	72	93	99	6
95°	48	46	77	98	102	56
105°	213	246	80	103	110	227
115°	400	417	454	146	101	394
125°	564	573	600	617	623	503
135°	697	708	719	735	737	539
145°	808	808	819	827	826	506
155°	890	884	892	896	891	410
165°	938	934	936	941	936	265
175°	959	954	956	961	954	91
180°	957	957	957	957	957	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	302.4	302.4	302.4	302.4	302.4
2.5°	304.6	303.3	300.2	302.4	301.6
5°	303.3	302.0	299.4	302.0	301.6
7.5°	301.1	300.2	298.1	301.1	300.7
10°	298.5	297.6	296.3	299.8	299.4
12.5°	294.1	294.5	293.7	297.2	296.7
15°	289.3	290.2	290.2	294.1	293.7
17.5°	283.2	284.9	286.2	290.2	290.2
20°	277.0	279.2	281.0	285.8	285.8
22.5°	270.4	273.1	275.7	280.5	281.4
25°	263.0	266.1	270.0	275.3	276.6
27.5°	254.2	259.0	263.4	270.0	270.9
30°	245.5	251.2	256.9	263.9	265.2
32.5°	235.8	242.4	249.4	257.7	260.4
35°	226.6	234.1	242.4	252.0	255.1
37.5°	216.5	224.9	235.4	245.9	249.0
40°	206.4	216.1	227.9	239.3	243.3
42.5°	196.8	206.4	220.5	233.2	237.1
45°	185.8	197.7	213.0	226.6	231.0
47.5°	175.3	188.0	205.6	219.6	224.4
50°	164.4	178.0	197.7	212.6	217.4
52.5°	153.8	168.3	189.4	204.7	210.0
55°	142.5	158.2	181.0	196.8	202.5
57.5°	131.5	149.0	171.8	188.9	194.6
60°	119.7	138.5	163.5	180.1	186.3
62.5°	109.1	128.9	153.8	171.8	177.5
65°	97.3	118.8	144.6	162.6	168.3
67.5°	86.8	109.1	135.4	153.4	159.5
70°	75.4	98.2	125.4	144.2	149.5
72.5°	64.9	88.5	116.2	134.6	141.1
75°	53.9	78.5	106.5	125.4	131.1
77.5°	43.4	68.8	97.3	116.2	122.3
80°	32.9	59.6	88.1	106.5	112.6
82.5°	24.1	50.4	79.3	97.7	103.4
85°	15.8	43.0	71.0	89.4	95.6
87.5°	9.6	35.9	64.0	82.0	87.7
90°	5.1	38.1	71.8	92.7	99.4
92.5°	21.2	41.7	70.5	89.0	95.0
95°	48.5	46.3	77.4	97.6	102.1
97.5°	84.1	46.1	82.6	101.0	106.9
100°	125.7	47.0	83.3	105.0	111.3
102.5°	170.9	184.0	81.7	105.0	112.0
105°	212.8	246.2	80.0	102.9	110.5
107.5°	261.9	289.8	78.2	100.8	108.4
110°	308.6	331.9	153.2	97.9	105.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.0	372.4	380.8	96.3	103.2
115°	400.1	416.7	453.7	146.1	101.1
117.5°	440.4	457.8	488.0	402.1	225.0
120°	486.2	498.3	528.3	548.9	460.2
122.5°	524.9	536.5	566.6	582.5	587.2
125°	564.0	573.0	600.2	616.8	622.9
127.5°	600.0	609.2	631.5	649.4	654.1
130°	634.0	644.6	661.4	679.6	682.4
132.5°	668.6	677.1	691.3	707.7	710.5
135°	697.2	708.3	718.9	735.1	737.2
137.5°	727.7	736.0	745.1	760.5	761.4
140°	757.5	762.6	771.1	784.4	783.5
142.5°	782.4	786.9	795.9	806.7	805.4
145°	808.3	807.6	819.4	826.9	825.6
147.5°	831.2	829.1	840.9	844.7	843.4
150°	853.3	848.5	859.6	863.7	860.3
152.5°	872.1	866.5	876.9	881.1	876.2
155°	890.1	883.8	892.1	896.3	890.8
157.5°	904.6	899.1	905.3	910.1	904.6
160°	917.1	912.9	917.1	921.2	916.4
162.5°	928.2	924.0	927.5	932.3	926.1
165°	937.9	933.7	935.8	940.6	935.8
167.5°	945.5	941.3	943.4	948.2	942.0
170°	951.7	947.6	948.9	953.8	947.6
172.5°	955.9	951.7	953.1	957.9	951.7
175°	959.3	954.5	955.9	960.7	953.8
177.5°	960.7	955.9	956.6	961.4	955.2
180°	957.2	957.2	957.2	957.2	957.2

(END OF REPORT)