

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: P1008811

Luminaire Tested: S122DIP-B290D330UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008811
REPORT IS A COMBINATION OF REPORTS P983881 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D330UB27-4F0-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

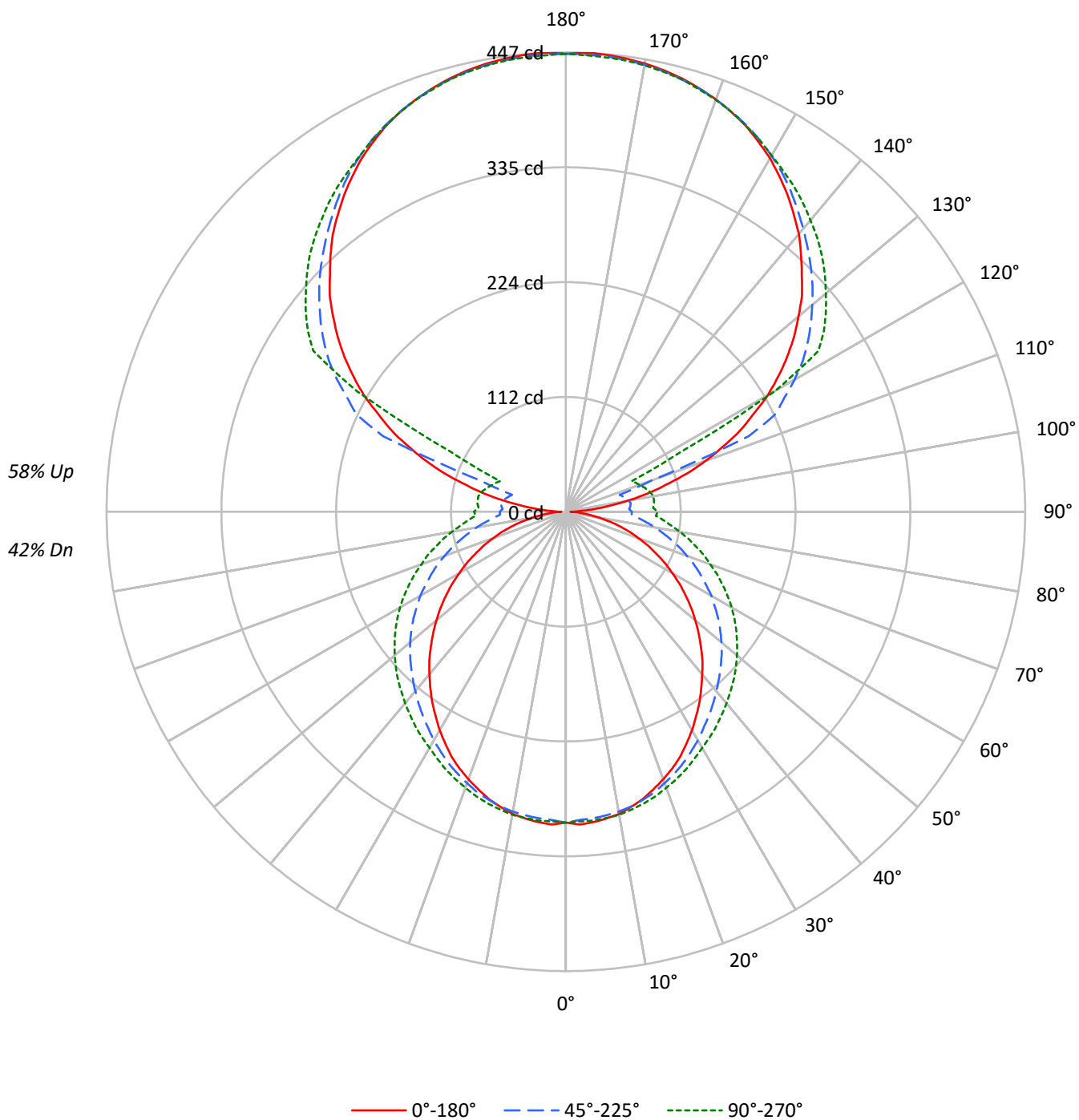
Lumens per Lamp: N/A
Luminaire Lumens: 2461.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 22.3
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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48
1	95	90	86	82	86	82	78	75	67	64	62	53	52	50	41	40	38
2	86	78	71	66	78	71	65	60	58	54	50	46	43	41	35	33	31
3	78	68	60	54	70	62	55	50	51	46	42	40	37	34	31	28	26
4	71	60	52	45	64	55	47	42	45	39	35	36	32	29	27	25	22
5	65	53	45	38	59	48	41	36	40	34	30	32	28	24	24	21	19
6	60	47	39	33	54	43	36	31	36	30	26	29	24	21	22	19	17
7	55	43	35	29	50	39	32	27	32	27	23	26	22	19	20	17	15
8	51	39	31	25	46	35	28	24	29	24	20	24	20	17	18	15	13
9	47	35	28	22	43	32	25	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	40	30	23	19	25	19	16	20	16	13	16	13	11

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	1.2
10°-20°	82.2	3.3
20°-30°	124.6	5.1
30°-40°	151.7	6.2
40°-50°	163.2	6.6
50°-60°	158.5	6.4
60°-70°	138.4	5.6
70°-80°	106.6	4.3
80°-90°	72.1	2.9
90°-100°	63.9	2.6
100°-110°	90.7	3.7
110°-120°	169.0	6.9
120°-130°	254.1	10.3
130°-140°	261.4	10.6
140°-150°	238.8	9.7
150°-160°	191.2	7.8
160°-170°	123.2	5.0
170°-180°	42.4	1.7
0°-30°	235.5	9.6
0°-40°	387.2	15.7
0°-60°	709.0	28.8
0°-90°	1026.1	41.7
90°-120°	323.7	13.2
90°-150°	1078.0	43.8
90°-180°	1435.0	58.3
0°-180°	2461.0	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	34	64	84	89	4
95°	24	34	63	81	86	28
105°	100	123	57	76	82	107
115°	187	198	225	89	71	184
125°	263	267	287	301	306	235
135°	325	330	337	350	352	251
145°	376	376	381	386	387	235
155°	414	411	415	417	415	191
165°	436	435	436	438	436	123
175°	446	444	445	447	444	42
180°	446	446	446	446	446	

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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°	4.7	33.7	64.3	83.5	89.4
92.5°	12.0	34.0	61.6	79.4	85.0
95°	24.5	34.4	63.0	81.3	86.2
97.5°	40.8	33.2	63.7	81.0	86.5
100°	60.2	32.2	62.2	81.0	86.5
102.5°	80.9	94.8	59.8	79.1	84.9
105°	100.2	122.6	57.4	76.2	82.4
107.5°	123.1	141.7	54.9	73.4	79.5
110°	144.6	160.1	88.4	70.2	76.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.3	178.1	192.7	67.8	73.6
115°	187.2	197.5	225.2	89.0	70.7
117.5°	205.7	215.6	239.5	206.6	126.6
120°	227.0	233.6	256.9	273.1	234.4
122.5°	245.0	250.7	273.3	287.1	291.4
125°	263.0	267.2	287.3	301.4	306.4
127.5°	279.8	283.8	300.5	314.6	319.0
130°	295.6	300.2	313.0	327.1	330.3
132.5°	311.7	315.4	325.5	338.5	341.7
135°	324.7	329.9	337.2	349.6	352.5
137.5°	338.9	342.8	348.2	359.8	361.9
140°	352.8	355.0	359.4	369.3	370.3
142.5°	364.4	366.2	370.4	378.3	378.9
145°	376.2	375.9	381.4	386.3	386.8
147.5°	386.9	385.9	391.4	393.4	393.5
150°	397.2	394.9	400.1	402.0	400.4
152.5°	405.9	403.3	408.2	410.1	407.8
155°	414.3	411.4	415.3	417.2	414.6
157.5°	421.1	418.5	421.4	423.6	421.1
160°	426.9	424.9	426.9	428.8	426.5
162.5°	432.0	430.1	431.7	434.0	431.0
165°	436.5	434.6	435.6	437.8	435.6
167.5°	440.1	438.1	439.1	441.4	438.5
170°	443.0	441.0	441.7	443.9	441.0
172.5°	444.9	443.0	443.6	445.9	443.0
175°	446.5	444.3	444.9	447.2	443.9
177.5°	447.2	444.9	445.2	447.5	444.6
180°	445.6	445.6	445.6	445.6	445.6

(END OF REPORT)