

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: P1008848

Luminaire Tested: S122DIP-B290D330UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008848
REPORT IS A COMBINATION OF REPORTS P983933 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D330UB50-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

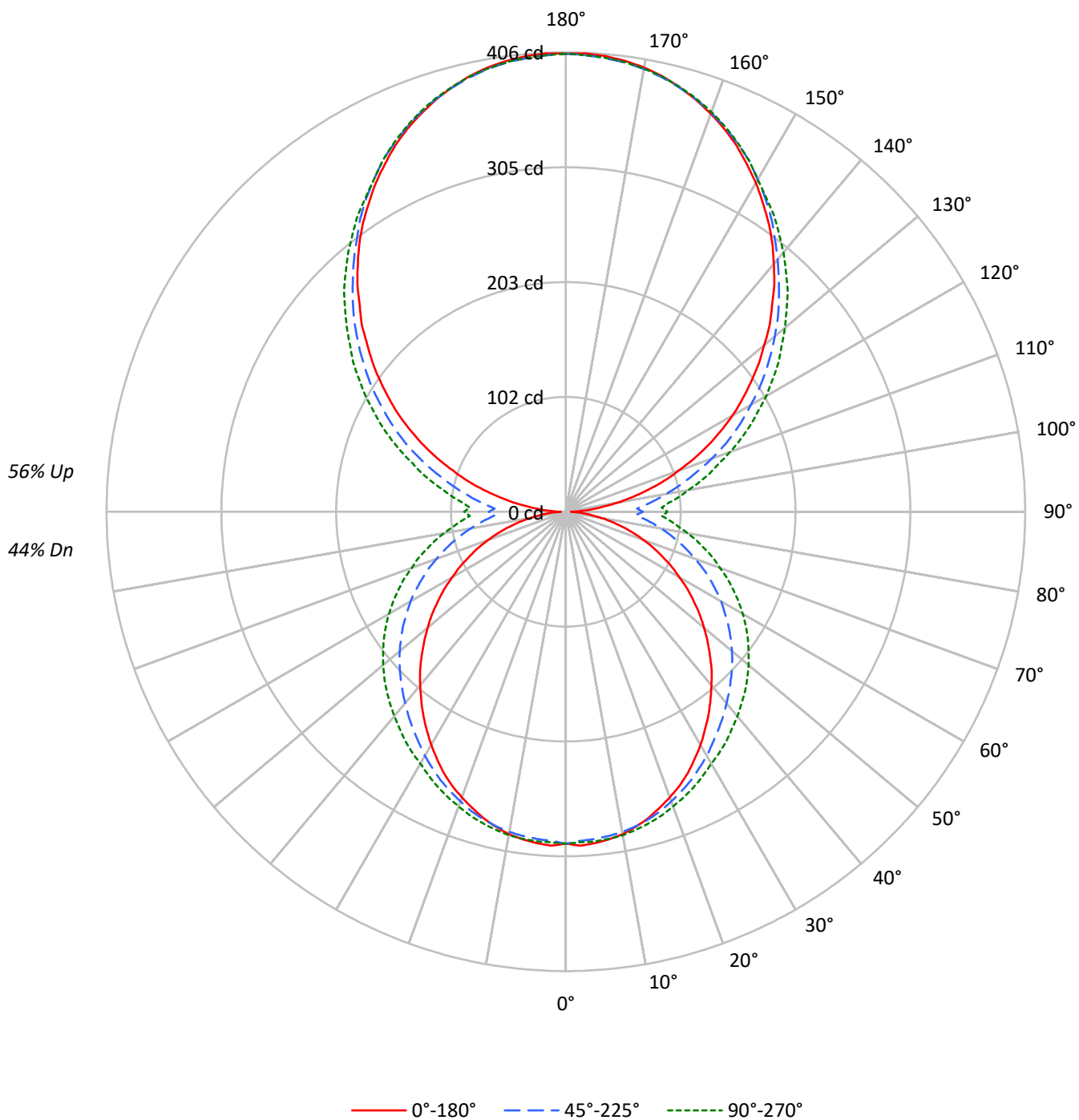
Lumens per Lamp: N/A
Luminaire Lumens: 2252.0 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	95	90	86	82	87	83	79	75	68	65	63	55	53	51	43	41	40
2	86	78	71	66	78	71	66	61	59	55	51	47	44	42	37	35	33
3	78	68	60	54	71	62	56	50	52	46	42	42	38	35	32	30	27
4	71	60	52	45	65	55	48	42	46	40	36	37	33	29	29	26	23
5	65	53	45	39	59	49	41	36	41	35	30	33	29	25	26	22	20
6	60	48	39	33	55	44	36	31	36	31	26	30	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	27	22	19	21	18	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	14
9	48	35	28	23	43	33	26	21	27	22	18	22	18	15	18	15	12
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11

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	1.2
10°-20°	79.7	3.5
20°-30°	120.8	5.4
30°-40°	147.1	6.5
40°-50°	158.3	7.0
50°-60°	153.7	6.8
60°-70°	134.3	6.0
70°-80°	103.3	4.6
80°-90°	70.4	3.1
90°-100°	72.8	3.2
100°-110°	114.5	5.1
110°-120°	159.3	7.1
120°-130°	192.0	8.5
130°-140°	206.5	9.2
140°-150°	198.1	8.8
150°-160°	165.4	7.3
160°-170°	109.7	4.9
170°-180°	38.3	1.7
0°-30°	228.3	10.1
0°-40°	375.5	16.7
0°-60°	687.5	30.5
0°-90°	995.4	44.2
90°-120°	346.5	15.4
90°-150°	943.1	41.9
90°-180°	1257.0	55.8
0°-180°	2252.0	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	33	68	84	90	4
95°	21	45	71	87	91	23
105°	76	89	112	127	132	80
115°	138	145	164	176	180	137
125°	200	203	215	226	229	179
135°	258	261	266	275	277	199
145°	312	315	317	320	320	195
155°	357	358	359	361	360	164
165°	388	388	388	390	389	110
175°	404	403	402	405	403	38
180°	405	405	405	405	405	

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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°	4.6	33.3	68.1	84.4	89.8
92.5°	11.3	36.6	62.9	79.8	84.9
95°	21.2	44.6	70.8	86.9	91.3
97.5°	32.7	54.1	80.1	95.8	100.9
100°	46.4	64.8	89.6	105.3	109.7
102.5°	60.3	76.4	100.7	116.3	120.7
105°	75.6	89.0	111.8	127.2	131.9
107.5°	91.3	102.8	124.1	138.9	141.9
110°	105.9	116.4	137.2	150.8	154.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	122.3	131.1	150.4	163.0	166.9
115°	138.4	145.1	163.5	176.0	179.6
117.5°	154.0	160.1	176.2	188.0	191.2
120°	170.1	174.5	188.8	200.7	204.3
122.5°	184.8	188.6	202.6	213.0	216.2
125°	199.7	202.8	215.4	225.8	229.3
127.5°	214.8	218.0	228.2	237.4	240.3
130°	228.8	232.7	241.0	250.5	252.6
132.5°	244.5	247.4	254.1	262.2	264.6
135°	257.7	261.4	266.4	275.0	277.3
137.5°	272.7	275.8	278.6	286.3	287.9
140°	286.0	288.7	291.3	298.1	299.2
142.5°	299.7	302.3	303.4	308.8	309.5
145°	312.3	314.6	316.7	319.6	320.4
147.5°	323.9	326.9	328.3	329.4	329.3
150°	335.8	337.9	339.2	340.3	339.2
152.5°	346.4	348.5	350.2	351.5	350.2
155°	357.0	358.0	359.1	360.8	359.7
157.5°	366.2	366.9	367.6	370.0	368.3
160°	374.4	375.1	375.5	377.5	376.1
162.5°	381.9	381.9	382.3	384.7	383.0
165°	388.4	388.1	388.1	390.5	388.8
167.5°	394.2	393.2	393.2	395.6	393.9
170°	398.7	397.7	397.3	399.7	397.7
172.5°	401.8	400.7	400.4	402.8	400.7
175°	404.2	403.1	402.4	404.8	402.8
177.5°	405.5	404.5	403.8	405.9	403.8
180°	404.8	404.8	404.8	404.8	404.8

(END OF REPORT)