

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: P1008838

Luminaire Tested: S122DIP-B290D330UB40-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008838
REPORT IS A COMBINATION OF REPORTS P983923 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D330UB40-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

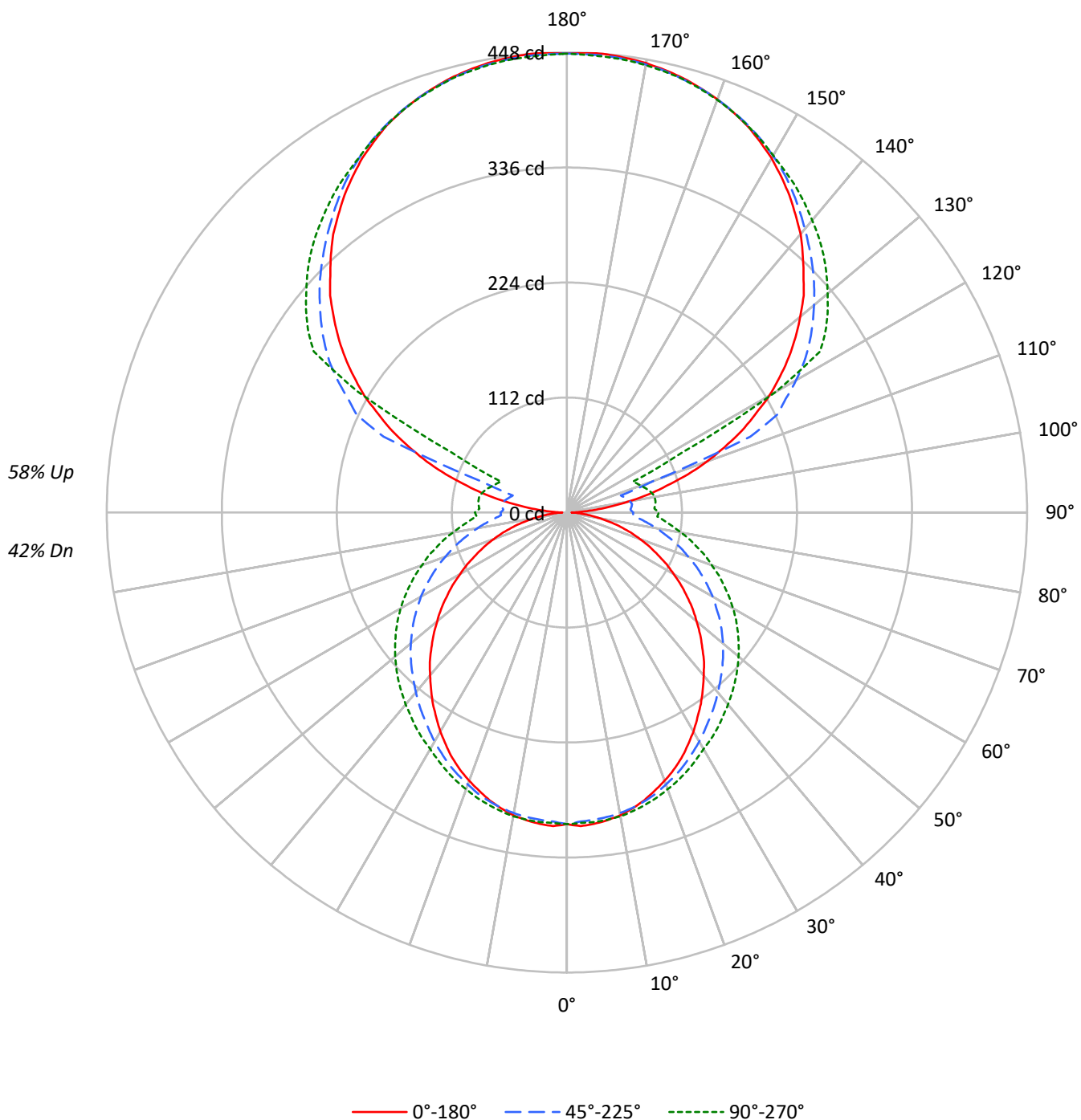
Lumens per Lamp: N/A
Luminaire Lumens: 2469.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	49	49	49
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°	4804	4804	4804
5°	4826	4599	4573
10°	4793	4439	4375
15°	4726	4275	4172
20°	4641	4101	3979
25°	4556	3936	3803
30°	4438	3767	3631
35°	4319	3605	3504
40°	4194	3465	3377
45°	4073	3338	3267
50°	3943	3221	3159
55°	3808	3097	3048
60°	3644	2967	2931
65°	3470	2816	2797
70°	3278	2657	2654
75°	3026	2497	2517
80°	2635	2330	2376
85°	2232	2174	2255

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.8	1.2
10°-20°	82.5	3.3
20°-30°	125.0	5.1
30°-40°	152.2	6.2
40°-50°	163.8	6.6
50°-60°	159.1	6.4
60°-70°	138.9	5.6
70°-80°	106.9	4.3
80°-90°	72.4	2.9
90°-100°	64.2	2.6
100°-110°	91.0	3.7
110°-120°	169.5	6.9
120°-130°	254.9	10.3
130°-140°	262.2	10.6
140°-150°	239.5	9.7
150°-160°	191.8	7.8
160°-170°	123.6	5.0
170°-180°	42.5	1.7
0°-30°	236.3	9.6
0°-40°	388.5	15.7
0°-60°	711.5	28.8
0°-90°	1029.7	41.7
90°-120°	324.7	13.2
90°-150°	1081.4	43.8
90°-180°	1439.0	58.3
0°-180°	2469.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	304	304	304	304	304	
5°	304	303	300	303	303	29
15°	290	291	291	295	295	82
25°	264	267	271	276	278	121
35°	227	235	243	253	256	142
45°	186	198	214	227	232	144
55°	143	159	182	198	203	128
65°	98	119	145	163	169	97
75°	54	79	107	126	132	57
85°	16	43	71	90	96	17
90°	5	34	65	84	90	4
95°	24	34	63	82	86	28
105°	100	123	58	76	83	108
115°	188	198	226	89	71	185
125°	264	268	288	302	307	235
135°	326	331	338	351	354	252
145°	377	377	383	387	388	236
155°	416	413	416	418	416	191
165°	438	436	437	439	437	124
175°	448	446	446	448	445	43
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	303.5	303.5	303.5	303.5	303.5
2.5°	305.7	304.4	301.3	303.5	302.6
5°	304.4	303.0	300.4	303.0	302.6
7.5°	302.2	301.3	299.1	302.2	301.7
10°	299.5	298.6	297.3	300.8	300.4
12.5°	295.1	295.6	294.7	298.2	297.8
15°	290.3	291.2	291.2	295.1	294.7
17.5°	284.1	285.9	287.2	291.2	291.2
20°	278.0	280.2	281.9	286.8	286.8
22.5°	271.4	274.0	276.7	281.5	282.4
25°	263.9	267.0	270.9	276.2	277.5
27.5°	255.1	259.9	264.3	270.9	271.8
30°	246.3	252.0	257.7	264.8	266.1
32.5°	236.6	243.2	250.3	258.6	261.3
35°	227.4	234.9	243.2	252.9	256.0
37.5°	217.3	225.6	236.2	246.7	249.8
40°	207.2	216.8	228.7	240.2	244.1
42.5°	197.5	207.2	221.2	234.0	238.0
45°	186.5	198.4	213.8	227.4	231.8
47.5°	175.9	188.7	206.3	220.4	225.2
50°	164.9	178.6	198.4	213.3	218.2
52.5°	154.4	168.9	190.0	205.4	210.7
55°	142.9	158.8	181.7	197.5	203.2
57.5°	132.0	149.5	172.4	189.6	195.3
60°	120.1	139.0	164.1	180.8	186.9
62.5°	109.5	129.3	154.4	172.4	178.1
65°	97.6	119.2	145.1	163.2	168.9
67.5°	87.1	109.5	135.9	153.9	160.1
70°	75.7	98.5	125.8	144.7	150.0
72.5°	65.1	88.8	116.6	135.0	141.6
75°	54.1	78.7	106.9	125.8	131.5
77.5°	43.5	69.1	97.6	116.6	122.7
80°	33.0	59.8	88.4	106.9	113.0
82.5°	24.2	50.6	79.6	98.1	103.8
85°	15.8	43.1	71.3	89.7	95.9
87.5°	9.7	36.1	64.2	82.2	88.0
90°	4.7	33.8	64.6	83.8	89.6
92.5°	12.1	34.1	61.9	79.7	85.2
95°	24.5	34.5	63.2	81.5	86.5
97.5°	40.9	33.3	64.0	81.3	86.9
100°	60.3	32.3	62.4	81.3	86.8
102.5°	81.2	95.1	60.0	79.3	85.2
105°	100.5	123.0	57.5	76.5	82.7
107.5°	123.5	142.2	55.1	73.6	79.7
110°	145.1	160.7	88.7	70.5	76.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	165.8	178.6	193.3	68.0	73.8
115°	187.7	198.0	225.9	89.4	70.9
117.5°	206.3	216.3	240.3	207.2	126.9
120°	227.7	234.3	257.7	273.9	235.1
122.5°	245.8	251.5	274.1	288.0	292.3
125°	263.8	268.0	288.3	302.3	307.3
127.5°	280.6	284.7	301.4	315.6	320.0
130°	296.5	301.1	314.0	328.1	331.3
132.5°	312.6	316.3	326.5	339.6	342.8
135°	325.7	330.9	338.2	350.7	353.6
137.5°	340.0	343.8	349.3	360.9	363.0
140°	353.9	356.0	360.5	370.4	371.5
142.5°	365.5	367.4	371.6	379.5	380.0
145°	377.4	377.1	382.6	387.4	388.0
147.5°	388.1	387.1	392.6	394.6	394.7
150°	398.4	396.1	401.3	403.3	401.6
152.5°	407.1	404.6	409.4	411.3	409.1
155°	415.6	412.6	416.5	418.5	415.9
157.5°	422.3	419.8	422.7	424.9	422.3
160°	428.2	426.2	428.2	430.1	427.8
162.5°	433.3	431.4	433.0	435.3	432.4
165°	437.9	435.9	436.9	439.2	436.9
167.5°	441.4	439.5	440.5	442.7	439.8
170°	444.3	442.4	443.0	445.3	442.4
172.5°	446.3	444.3	445.0	447.2	444.3
175°	447.9	445.6	446.3	448.5	445.3
177.5°	448.5	446.3	446.6	448.9	446.0
180°	446.9	446.9	446.9	446.9	446.9

(END OF REPORT)