

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: P1008780

Luminaire Tested: S122DIP-B290D1080UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008780
REPORT IS A COMBINATION OF REPORTS P983847 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D1080UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

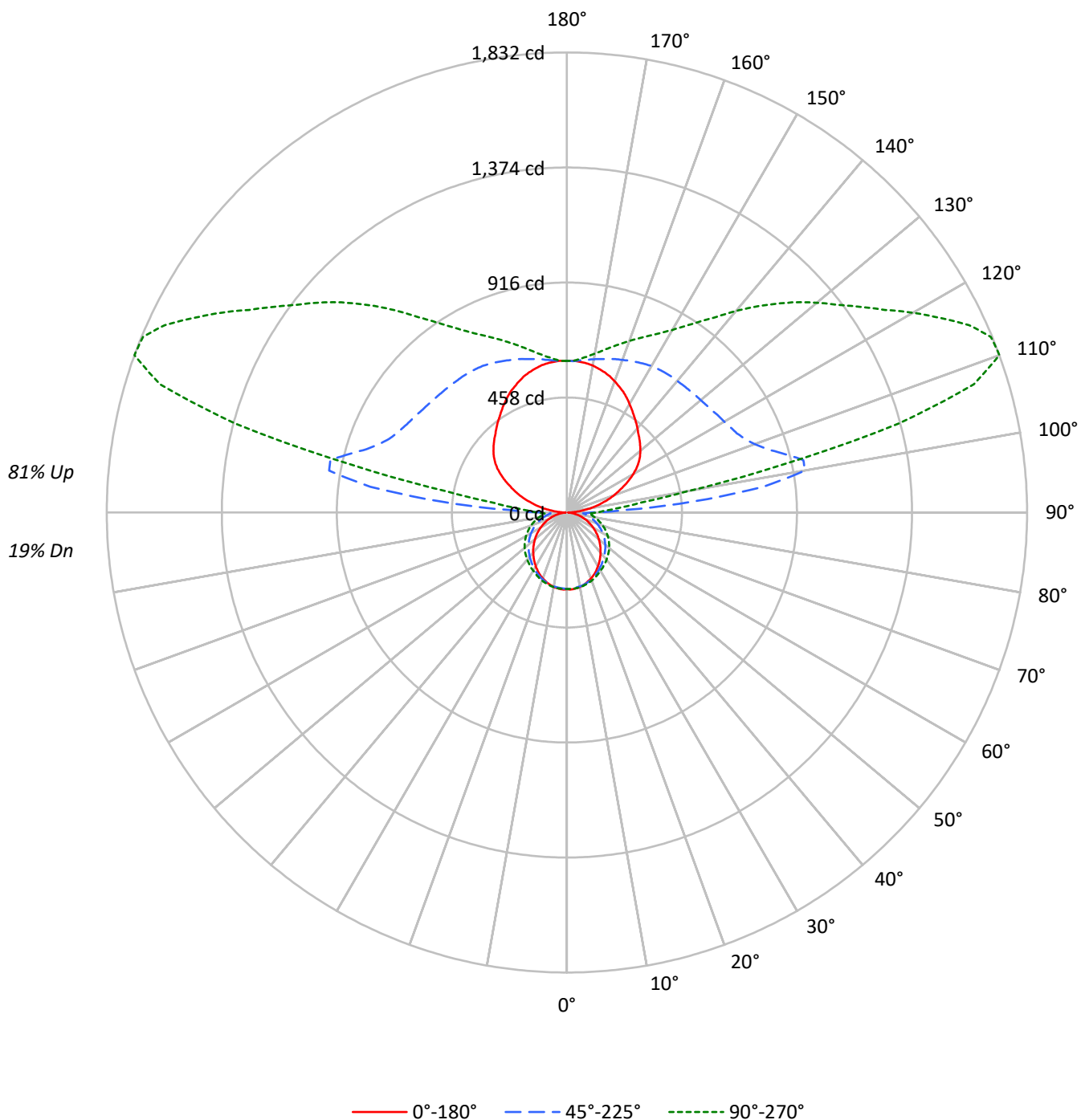
Lumens per Lamp: N/A
Luminaire Lumens: 5376.8 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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

TEST NUMBER: P1008780

CATALOG NUMBER: S122DIP-B290D1080UB30-4F0-XX-W2A-D4

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	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28
1	90	86	82	78	79	76	73	70	57	55	53	40	38	37	24	23	22
2	82	75	69	64	72	66	61	57	50	46	43	34	32	30	20	19	18
3	75	65	58	52	65	58	52	47	43	39	36	30	28	25	18	17	15
4	68	58	50	44	60	51	44	39	38	34	30	27	24	22	16	14	13
5	62	51	43	37	55	45	38	33	34	29	26	24	21	18	14	13	11
6	57	45	38	32	50	40	34	29	30	26	22	21	18	16	13	11	10
7	53	41	33	28	46	36	30	25	27	23	19	19	16	14	12	10	9
8	49	37	29	24	43	33	26	22	25	20	17	18	14	12	11	9	8
9	45	33	26	21	40	30	23	19	23	18	15	16	13	11	10	8	7
10	42	30	23	19	37	27	21	17	21	16	13	15	12	10	9	7	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4830	4830	4830
5°	4850	4623	4597
10°	4818	4463	4398
15°	4750	4297	4193
20°	4664	4123	4000
25°	4580	3956	3824
30°	4461	3788	3650
35°	4341	3624	3522
40°	4214	3483	3395
45°	4095	3356	3284
50°	3965	3237	3175
55°	3829	3112	3064
60°	3663	2981	2947
65°	3487	2832	2812
70°	3291	2670	2668
75°	3043	2509	2530
80°	2651	2343	2388
85°	2246	2183	2267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4095 cd/sqm

TEST NUMBER: P1008780

CATALOG NUMBER: S122DIP-B290D1080UB30-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	0.5
10°-20°	82.9	1.5
20°-30°	125.7	2.3
30°-40°	153.0	2.8
40°-50°	164.7	3.1
50°-60°	159.9	3.0
60°-70°	139.6	2.6
70°-80°	107.5	2.0
80°-90°	75.8	1.4
90°-100°	294.4	5.5
100°-110°	863.6	16.1
110°-120°	893.6	16.6
120°-130°	728.5	13.5
130°-140°	580.3	10.8
140°-150°	435.1	8.1
150°-160°	305.2	5.7
160°-170°	179.7	3.3
170°-180°	58.5	1.1
0°-30°	237.5	4.4
0°-40°	390.6	7.3
0°-60°	715.1	13.3
0°-90°	1038.1	19.3
90°-120°	2051.6	38.2
90°-150°	3795.4	70.6
90°-180°	4339.0	80.7
0°-180°	5376.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	305	305	305	305	305	
5°	306	305	302	305	304	29
15°	292	293	293	297	296	82
25°	265	268	272	278	279	122
35°	229	236	244	254	257	143
45°	188	199	215	229	233	145
55°	144	160	183	198	204	129
65°	98	120	146	164	170	98
75°	54	79	107	126	132	58
85°	16	43	72	90	96	17
90°	6	46	98	114	120	6
95°	44	124	506	239	205	45
105°	144	229	898	1591	1367	153
115°	251	322	746	1525	1766	249
125°	349	413	707	1230	1428	311
135°	409	488	689	1025	1175	316
145°	467	536	680	847	929	293
155°	531	573	661	747	777	244
165°	578	596	633	671	682	163
175°	602	603	608	616	614	57
180°	604	604	604	604	604	

TEST NUMBER: P1008780

CATALOG NUMBER: S122DIP-B290D1080UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	305.1	305.1	305.1	305.1	305.1
2.5°	307.3	305.9	302.8	305.1	304.2
5°	305.9	304.6	302.0	304.6	304.2
7.5°	303.7	302.8	300.6	303.7	303.3
10°	301.1	300.2	298.9	302.4	302.0
12.5°	296.7	297.1	296.2	299.8	299.3
15°	291.8	292.7	292.7	296.7	296.2
17.5°	285.6	287.4	288.7	292.7	292.7
20°	279.4	281.6	283.4	288.3	288.3
22.5°	272.8	275.4	278.1	283.0	283.8
25°	265.3	268.4	272.3	277.6	279.0
27.5°	256.4	261.3	265.7	272.3	273.2
30°	247.6	253.3	259.1	266.2	267.5
32.5°	237.9	244.5	251.6	260.0	262.6
35°	228.6	236.1	244.5	254.2	257.3
37.5°	218.4	226.8	237.4	248.0	251.1
40°	208.2	218.0	229.9	241.4	245.4
42.5°	198.5	208.2	222.4	235.2	239.2
45°	187.5	199.4	214.9	228.6	233.0
47.5°	176.8	189.7	207.4	221.5	226.4
50°	165.8	179.5	199.4	214.4	219.3
52.5°	155.2	169.8	191.0	206.5	211.8
55°	143.7	159.6	182.6	198.5	204.3
57.5°	132.6	150.3	173.3	190.6	196.3
60°	120.7	139.7	164.9	181.7	187.9
62.5°	110.1	130.0	155.2	173.3	179.1
65°	98.1	119.8	145.9	164.0	169.8
67.5°	87.5	110.1	136.6	154.7	160.9
70°	76.0	99.0	126.4	145.5	150.8
72.5°	65.4	89.3	117.2	135.7	142.4
75°	54.4	79.1	107.4	126.4	132.2
77.5°	43.8	69.4	98.1	117.2	123.4
80°	33.2	60.1	88.9	107.4	113.6
82.5°	24.3	50.8	80.0	98.6	104.3
85°	15.9	43.3	71.6	90.2	96.4
87.5°	9.7	36.3	64.5	82.7	88.4
90°	5.6	45.8	97.9	113.8	119.6
92.5°	21.4	82.6	233.2	154.0	147.7
95°	44.1	124.2	505.9	239.4	205.2
97.5°	63.5	153.8	789.5	408.9	291.1
100°	92.5	180.8	961.3	747.3	481.0
102.5°	118.8	205.2	964.1	1218.0	872.2
105°	143.8	228.6	898.3	1591.2	1366.8
107.5°	171.7	252.0	837.1	1724.1	1698.7
110°	199.2	275.8	795.0	1698.4	1832.2

TEST NUMBER: P1008780

CATALOG NUMBER: S122DIP-B290D1080UB30-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.7	299.0	766.4	1620.4	1826.8
115°	251.4	321.8	746.3	1525.2	1766.4
117.5°	278.8	345.0	733.9	1434.5	1676.9
120°	304.3	367.7	723.2	1352.6	1591.3
122.5°	328.7	391.3	715.8	1288.6	1501.4
125°	349.2	413.0	706.9	1230.4	1427.5
127.5°	366.6	434.0	700.8	1179.7	1357.8
130°	381.7	453.2	695.8	1129.0	1299.8
132.5°	395.6	471.8	692.1	1076.6	1239.8
135°	409.1	488.0	688.7	1025.3	1175.2
137.5°	421.8	501.9	686.5	973.5	1112.4
140°	436.9	514.3	683.5	927.4	1047.3
142.5°	452.0	524.8	682.6	883.6	982.7
145°	466.7	536.4	680.3	847.3	929.0
147.5°	483.0	545.6	676.8	815.4	880.6
150°	499.2	555.0	673.3	789.4	839.4
152.5°	515.5	564.2	667.5	768.0	805.7
155°	530.6	572.9	660.6	747.1	776.7
157.5°	543.3	579.8	653.6	727.4	751.1
160°	556.1	586.8	646.6	707.6	726.8
162.5°	568.9	592.0	640.8	689.0	703.5
165°	578.2	595.6	632.7	671.0	681.5
167.5°	586.3	599.0	625.7	654.8	660.6
170°	594.4	600.8	619.9	639.6	642.0
172.5°	599.0	602.6	613.0	626.3	626.9
175°	602.5	603.1	608.3	615.9	614.1
177.5°	604.9	603.7	603.7	608.3	604.9
180°	603.7	603.7	603.7	603.7	603.7

(END OF REPORT)