

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: P1008778

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

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008778
REPORT IS A COMBINATION OF REPORTS P983845 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-D
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

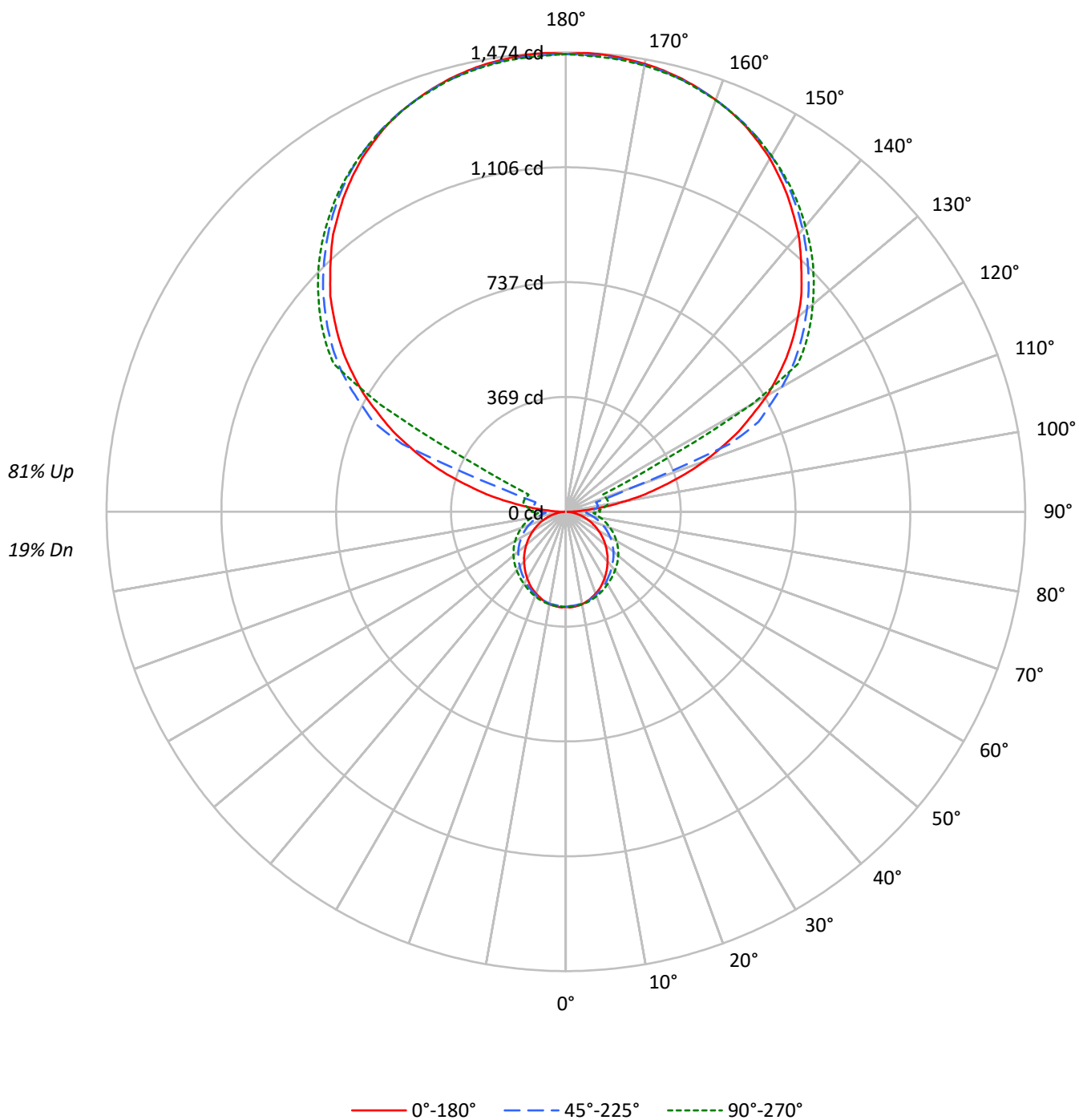
Lumens per Lamp: N/A
Luminaire Lumens: 5471.0 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

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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					0
RW	70	50	30	10	70	50	30	10	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	19		
1	90	86	82	78	79	76	73	70	57	55	53	39	38	37	23	23	22	15		
2	82	75	69	63	72	66	61	57	49	46	43	34	32	30	20	19	18	12		
3	74	65	58	52	65	58	52	47	43	39	36	30	28	25	18	16	15	10		
4	68	57	50	44	60	51	44	39	38	34	30	27	24	21	16	14	13	8		
5	62	51	43	37	54	45	38	33	34	29	26	24	21	18	14	12	11	7		
6	57	45	38	32	50	40	34	29	30	26	22	21	18	16	13	11	10	6		
7	53	41	33	28	46	36	30	25	27	23	19	19	16	14	12	10	8	5		
8	49	37	29	24	43	33	26	22	25	20	17	17	14	12	11	9	7	5		
9	45	33	26	21	40	30	23	19	23	18	15	16	13	11	10	8	7	4		
10	42	30	23	19	37	27	21	17	21	16	13	15	12	10	9	7	6	4		

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

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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	3.0
50°-60°	159.9	2.9
60°-70°	139.6	2.6
70°-80°	107.5	2.0
80°-90°	74.6	1.4
90°-100°	98.1	1.8
100°-110°	216.7	4.0
110°-120°	502.6	9.2
120°-130°	807.2	14.8
130°-140°	848.9	15.5
140°-150°	784.7	14.3
150°-160°	630.1	11.5
160°-170°	406.0	7.4
170°-180°	139.7	2.6
0°-30°	237.5	4.3
0°-40°	390.6	7.1
0°-60°	715.1	13.1
0°-90°	1036.8	19.0
90°-120°	817.4	14.9
90°-150°	3258.3	59.6
90°-180°	4434.0	81.0
0°-180°	5471.0	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	43	80	103	110	7
95°	73	58	92	114	119	85
105°	325	370	103	130	139	348
115°	613	636	682	203	132	603
125°	865	878	913	932	939	771
135°	1069	1086	1100	1120	1122	826
145°	1240	1239	1257	1267	1264	776
155°	1365	1356	1368	1375	1366	629
165°	1438	1432	1435	1443	1435	406
175°	1471	1464	1466	1474	1463	140
180°	1468	1468	1468	1468	1468	

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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°	5.5	42.8	79.6	102.6	110.0
92.5°	30.6	49.7	79.9	99.2	105.6
95°	72.6	58.3	92.2	114.3	118.6
97.5°	127.4	59.3	101.9	121.5	127.8
100°	191.1	62.0	104.8	129.7	136.6
102.5°	260.9	273.2	103.8	131.4	139.5
105°	325.2	369.8	102.8	130.0	139.1
107.5°	400.6	437.8	101.8	128.6	137.7
110°	472.4	503.6	218.2	126.1	135.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	540.4	566.6	568.9	125.1	133.2
115°	612.7	635.5	682.0	203.4	131.8
117.5°	674.9	699.7	736.3	597.7	323.7
120°	745.0	762.7	799.6	824.7	686.1
122.5°	804.5	822.0	859.5	877.9	882.9
125°	864.6	878.5	912.7	932.2	939.3
127.5°	919.9	934.3	962.2	983.8	988.9
130°	971.9	988.4	1009.4	1031.7	1034.3
132.5°	1025.1	1038.4	1056.8	1076.4	1079.0
135°	1069.2	1086.2	1100.2	1120.1	1121.5
137.5°	1115.9	1128.7	1141.6	1160.6	1160.4
140°	1161.6	1169.7	1182.3	1199.0	1196.3
142.5°	1199.9	1206.9	1220.7	1234.5	1231.4
145°	1239.8	1238.8	1256.8	1267.0	1263.9
147.5°	1274.9	1271.7	1289.8	1295.5	1292.6
150°	1308.9	1301.5	1318.5	1324.8	1319.5
152.5°	1337.6	1329.1	1345.0	1351.4	1344.0
155°	1365.2	1355.6	1368.4	1374.8	1366.3
157.5°	1387.5	1379.0	1388.6	1396.0	1387.5
160°	1406.6	1400.3	1406.6	1413.0	1405.6
162.5°	1423.6	1417.3	1422.6	1430.0	1420.4
165°	1438.5	1432.1	1435.3	1442.8	1435.3
167.5°	1450.2	1443.8	1447.0	1454.4	1444.9
170°	1459.8	1453.4	1455.5	1462.9	1453.4
172.5°	1466.1	1459.8	1461.9	1469.3	1459.8
175°	1471.4	1464.0	1466.1	1473.6	1462.9
177.5°	1473.6	1466.1	1467.2	1474.6	1465.1
180°	1468.3	1468.3	1468.3	1468.3	1468.3

(END OF REPORT)