

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: P1008779

Luminaire Tested: S122DIP-B290D1080UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008779
REPORT IS A COMBINATION OF REPORTS P983846 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-D1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

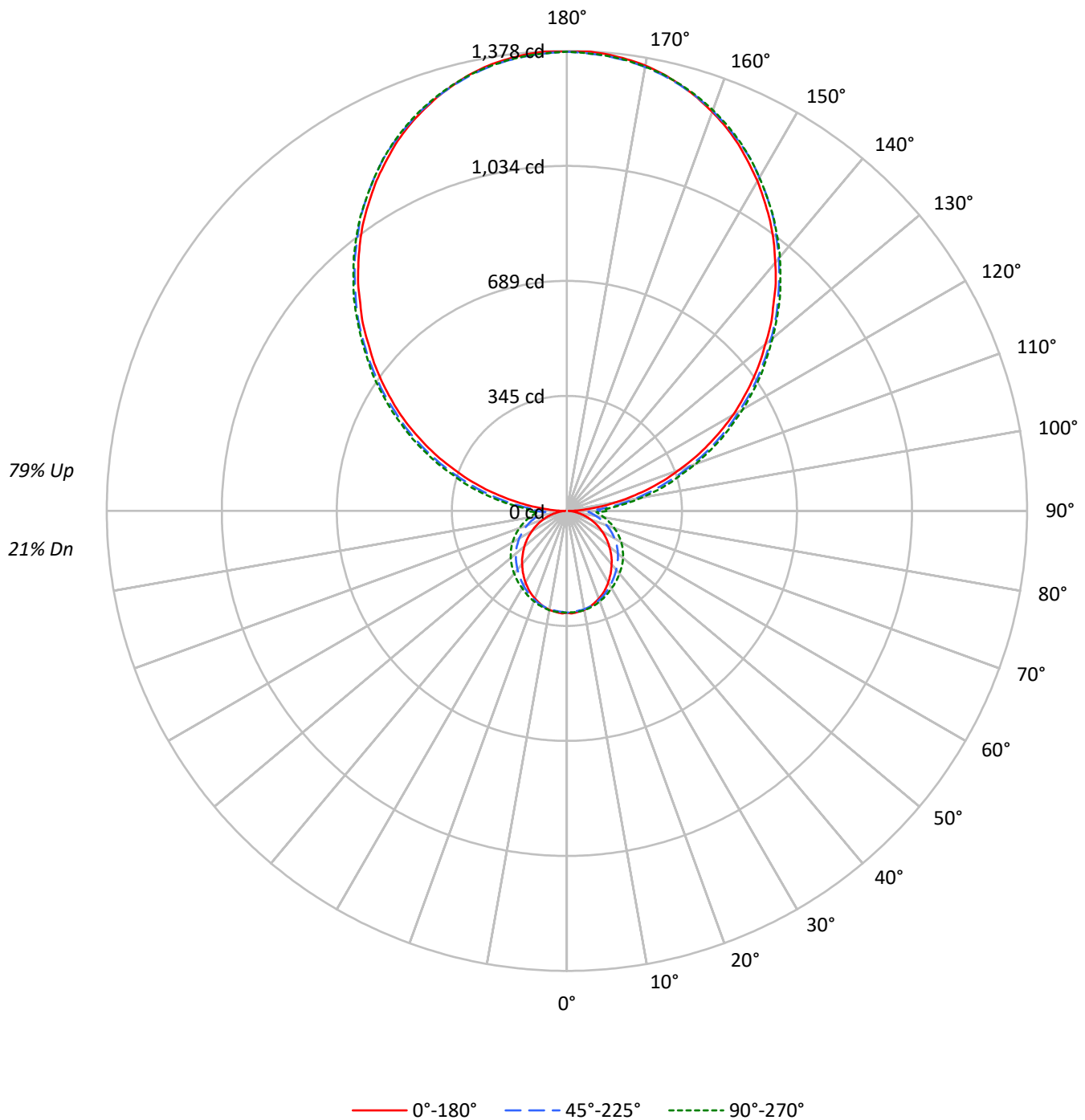
Lumens per Lamp: N/A
Luminaire Lumens: 5013.9 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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					10
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	89	89	89	89	67	67	67	47	47	47	29	29	29	21		
1	91	86	82	79	80	76	73	70	58	55	53	41	39	38	25	24	23	16		
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13		
3	75	65	58	53	66	58	52	47	44	40	36	31	28	26	19	17	16	11		
4	68	58	50	44	60	51	45	40	39	34	31	27	24	22	17	15	14	9		
5	62	51	43	37	55	45	39	34	34	30	26	24	21	19	15	13	12	8		
6	57	46	38	32	50	40	34	29	31	26	23	22	19	16	13	12	10	7		
7	53	41	33	28	46	36	30	25	28	23	20	20	17	14	12	10	9	6		
8	49	37	29	24	43	33	26	22	25	20	17	18	15	13	11	9	8	5		
9	45	33	26	21	40	30	24	19	23	18	15	16	13	11	10	8	7	5		
10	42	31	24	19	37	27	21	17	21	17	13	15	12	10	9	8	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	0.6
10°-20°	82.9	1.7
20°-30°	125.7	2.5
30°-40°	153.0	3.1
40°-50°	164.7	3.3
50°-60°	159.9	3.2
60°-70°	139.6	2.8
70°-80°	107.5	2.1
80°-90°	75.9	1.5
90°-100°	134.7	2.7
100°-110°	306.8	6.1
110°-120°	486.9	9.7
120°-130°	622.1	12.4
130°-140°	689.0	13.7
140°-150°	671.1	13.4
150°-160°	562.1	11.2
160°-170°	372.8	7.4
170°-180°	130.3	2.6
0°-30°	237.5	4.7
0°-40°	390.6	7.8
0°-60°	715.1	14.3
0°-90°	1038.1	20.7
90°-120°	928.4	18.5
90°-150°	2910.6	58.0
90°-180°	3976.0	79.3
0°-180°	5013.9	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	45	99	114	121	7
95°	64	96	125	142	145	70
105°	252	268	293	311	316	266
115°	466	478	496	508	509	461
125°	676	687	698	706	709	605
135°	875	887	894	902	902	676
145°	1061	1069	1076	1080	1078	663
155°	1213	1217	1220	1226	1222	558
165°	1320	1319	1319	1327	1321	372
175°	1373	1370	1368	1376	1369	130
180°	1376	1376	1376	1376	1376	

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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°	5.6	45.2	99.0	114.3	120.8
92.5°	29.5	62.2	90.4	108.7	114.0
95°	63.9	96.3	125.1	141.9	144.9
97.5°	104.1	133.5	163.8	180.2	185.5
100°	150.5	176.2	204.4	220.8	224.4
102.5°	198.9	220.4	248.9	266.0	269.7
105°	251.8	268.1	293.4	311.2	316.1
107.5°	305.2	320.4	342.5	358.8	357.8
110°	355.9	371.6	393.3	407.4	408.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	411.6	425.6	444.8	455.4	458.0
115°	466.2	477.9	495.5	507.6	509.1
117.5°	520.2	533.1	545.8	555.6	556.5
120°	574.8	585.9	594.3	606.7	608.0
122.5°	624.7	636.8	647.3	655.8	657.4
125°	676.5	687.0	697.6	706.1	708.9
127.5°	727.6	739.9	747.2	753.6	754.1
130°	775.2	789.8	796.8	805.1	804.0
132.5°	828.6	839.7	847.6	851.9	852.0
135°	874.6	887.3	894.1	902.2	902.3
137.5°	925.6	936.1	940.7	947.9	946.3
140°	970.9	981.0	987.7	994.8	992.7
142.5°	1017.3	1027.4	1030.9	1037.3	1034.9
145°	1061.1	1069.2	1076.1	1080.0	1077.6
147.5°	1100.5	1111.0	1115.6	1118.3	1115.1
150°	1141.2	1148.1	1152.8	1156.3	1152.8
152.5°	1177.1	1184.1	1189.9	1194.6	1189.9
155°	1213.1	1216.6	1220.1	1225.9	1222.4
157.5°	1244.5	1246.8	1249.1	1257.2	1251.4
160°	1272.3	1274.7	1275.8	1282.8	1278.1
162.5°	1297.9	1297.9	1299.0	1307.2	1301.4
165°	1319.9	1318.8	1318.8	1326.9	1321.1
167.5°	1339.7	1336.2	1336.2	1344.3	1338.5
170°	1354.8	1351.3	1350.1	1358.2	1351.3
172.5°	1365.2	1361.7	1360.6	1368.7	1361.7
175°	1373.3	1369.9	1367.5	1375.7	1368.7
177.5°	1378.0	1374.5	1372.2	1379.1	1372.2
180°	1375.7	1375.7	1375.7	1375.7	1375.7

(END OF REPORT)