

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: P1008787

Luminaire Tested: S122DIP-B290D1080UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008787
REPORT IS A COMBINATION OF REPORTS P983854 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B290D1080UB35-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

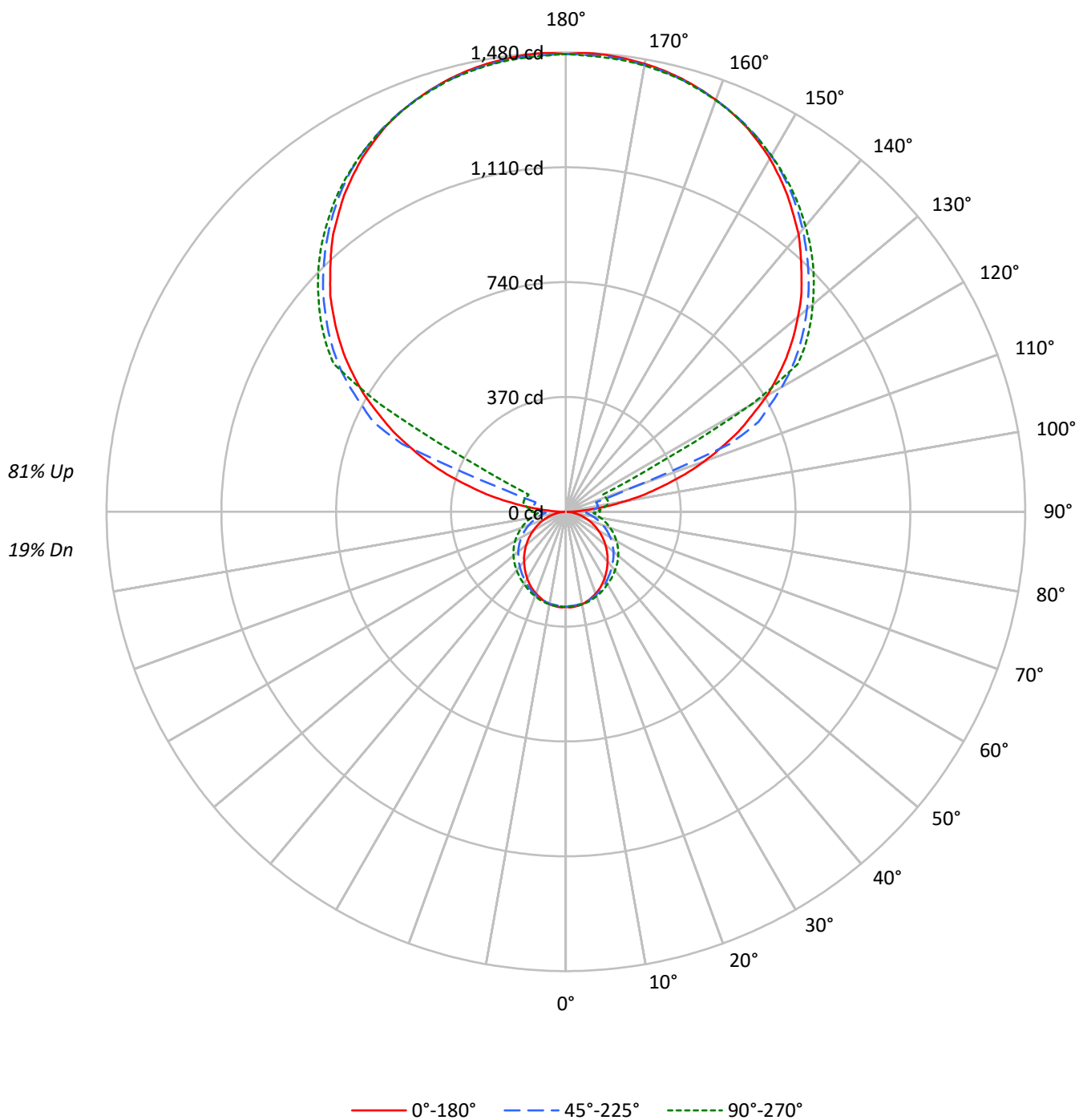
Lumens per Lamp: N/A
Luminaire Lumens: 5494.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	100	100	100	100	88	88	88	88	66	66	66		46	46	46		28
1	90	86	82	78	79	76	73	70	57	55	53		39	38	37		23
2	82	75	69	63	72	66	61	57	49	46	43		34	32	30		20
3	74	65	58	52	65	58	52	47	43	39	36		30	28	25		18
4	68	57	50	44	60	51	44	39	38	34	30		27	24	21		16
5	62	51	43	37	54	45	38	33	34	29	26		24	21	18		14
6	57	45	38	32	50	40	34	29	30	26	22		21	18	16		13
7	53	41	33	28	46	36	30	25	27	23	19		19	16	14		12
8	49	37	29	24	43	33	26	22	25	20	17		17	14	12		11
9	45	33	26	21	40	30	23	19	23	18	15		16	13	11		10
10	42	30	23	19	37	27	21	17	21	16	13		15	12	10		9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4850	4850	4850
5°	4872	4643	4617
10°	4839	4483	4417
15°	4770	4315	4212
20°	4684	4141	4017
25°	4599	3973	3840
30°	4479	3804	3665
35°	4360	3639	3537
40°	4232	3498	3409
45°	4112	3370	3298
50°	3982	3252	3188
55°	3845	3126	3076
60°	3678	2994	2959
65°	3505	2843	2824
70°	3309	2682	2678
75°	3054	2520	2542
80°	2659	2351	2399
85°	2260	2192	2276

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	0.5
10°-20°	83.3	1.5
20°-30°	126.2	2.3
30°-40°	153.7	2.8
40°-50°	165.4	3.0
50°-60°	160.6	2.9
60°-70°	140.2	2.6
70°-80°	108.0	2.0
80°-90°	74.9	1.4
90°-100°	98.5	1.8
100°-110°	217.6	4.0
110°-120°	504.7	9.2
120°-130°	810.6	14.8
130°-140°	852.4	15.5
140°-150°	788.0	14.3
150°-160°	632.7	11.5
160°-170°	407.7	7.4
170°-180°	140.3	2.6
0°-30°	238.5	4.3
0°-40°	392.2	7.1
0°-60°	718.2	13.1
0°-90°	1041.3	19.0
90°-120°	820.9	14.9
90°-150°	3271.9	59.6
90°-180°	4453.0	81.1
0°-180°	5494.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	306	306	306	306	306	
5°	307	306	303	306	306	29
15°	293	294	294	298	298	83
25°	266	270	274	279	280	123
35°	230	237	246	255	258	143
45°	188	200	216	230	234	145
55°	144	160	183	199	205	129
65°	99	120	146	165	170	98
75°	55	80	108	127	133	58
85°	16	44	72	91	97	17
90°	6	43	80	103	110	7
95°	73	58	93	115	119	85
105°	326	371	103	130	140	349
115°	615	638	685	204	132	605
125°	868	882	917	936	943	774
135°	1074	1091	1105	1125	1126	830
145°	1245	1244	1262	1272	1269	779
155°	1371	1361	1374	1380	1372	632
165°	1444	1438	1441	1449	1441	408
175°	1478	1470	1472	1480	1469	141
180°	1474	1474	1474	1474	1474	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	306.4	306.4	306.4	306.4	306.4
2.5°	308.6	307.3	304.1	306.4	305.5
5°	307.3	305.9	303.3	305.9	305.5
7.5°	305.0	304.1	301.9	305.0	304.6
10°	302.4	301.5	300.2	303.7	303.3
12.5°	297.9	298.4	297.5	301.0	300.6
15°	293.0	293.9	293.9	297.9	297.5
17.5°	286.8	288.6	289.9	293.9	293.9
20°	280.6	282.8	284.6	289.5	289.5
22.5°	274.0	276.6	279.3	284.2	285.1
25°	266.4	269.5	273.5	278.8	280.2
27.5°	257.5	262.4	266.9	273.5	274.4
30°	248.6	254.4	260.2	267.3	268.6
32.5°	238.9	245.5	252.6	261.1	263.7
35°	229.6	237.1	245.5	255.3	258.4
37.5°	219.3	227.8	238.4	249.1	252.2
40°	209.1	218.9	230.9	242.4	246.4
42.5°	199.4	209.1	223.3	236.2	240.2
45°	188.3	200.3	215.8	229.6	234.0
47.5°	177.6	190.5	208.2	222.5	227.3
50°	166.5	180.3	200.3	215.3	220.2
52.5°	155.8	170.5	191.8	207.4	212.7
55°	144.3	160.3	183.4	199.4	205.1
57.5°	133.2	151.0	174.1	191.4	197.1
60°	121.2	140.3	165.6	182.5	188.7
62.5°	110.6	130.5	155.8	174.1	179.8
65°	98.6	120.3	146.5	164.7	170.5
67.5°	87.9	110.6	137.2	155.4	161.6
70°	76.4	99.5	127.0	146.1	151.4
72.5°	65.7	89.7	117.7	136.3	143.0
75°	54.6	79.5	107.9	127.0	132.8
77.5°	44.0	69.7	98.6	117.7	123.9
80°	33.3	60.4	89.2	107.9	114.1
82.5°	24.4	51.1	80.4	99.0	104.8
85°	16.0	43.5	71.9	90.6	96.8
87.5°	9.8	36.4	64.8	83.0	88.8
90°	5.5	43.0	79.9	103.1	110.5
92.5°	30.7	49.9	80.2	99.6	106.1
95°	72.9	58.5	92.7	114.8	119.2
97.5°	127.9	59.5	102.4	122.0	128.4
100°	191.9	62.2	105.2	130.1	137.2
102.5°	261.9	274.4	104.2	132.0	140.1
105°	326.5	371.4	103.3	130.5	139.7
107.5°	402.3	439.6	102.3	129.1	138.3
110°	474.4	505.7	219.1	126.6	135.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	542.7	569.0	571.3	125.6	133.7
115°	615.2	638.3	684.8	204.3	132.3
117.5°	677.7	702.6	739.4	600.2	325.1
120°	748.1	765.9	802.9	828.1	689.0
122.5°	807.8	825.4	863.1	881.6	886.6
125°	868.3	882.1	916.6	936.1	943.3
127.5°	923.7	938.2	966.2	987.9	993.0
130°	976.0	992.6	1013.7	1036.0	1038.6
132.5°	1029.3	1042.7	1061.2	1081.0	1083.5
135°	1073.7	1090.7	1104.8	1124.8	1126.3
137.5°	1120.6	1133.4	1146.4	1165.4	1165.3
140°	1166.5	1174.6	1187.2	1203.9	1201.3
142.5°	1204.9	1211.9	1225.8	1239.7	1236.5
145°	1245.0	1244.0	1262.1	1272.3	1269.1
147.5°	1280.2	1277.0	1295.2	1300.9	1298.0
150°	1314.4	1306.9	1324.0	1330.4	1325.0
152.5°	1343.2	1334.6	1350.6	1357.0	1349.6
155°	1370.9	1361.3	1374.1	1380.5	1372.0
157.5°	1393.3	1384.8	1394.4	1401.8	1393.3
160°	1412.5	1406.1	1412.5	1418.9	1411.4
162.5°	1429.6	1423.2	1428.5	1436.0	1426.4
165°	1444.5	1438.1	1441.3	1448.8	1441.3
167.5°	1456.3	1449.9	1453.1	1460.5	1450.9
170°	1465.9	1459.5	1461.6	1469.1	1459.5
172.5°	1472.3	1465.9	1468.0	1475.5	1465.9
175°	1477.6	1470.1	1472.3	1479.7	1469.1
177.5°	1479.7	1472.3	1473.3	1480.8	1471.2
180°	1474.4	1474.4	1474.4	1474.4	1474.4

(END OF REPORT)