

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: P1008077

Luminaire Tested: S122DIP-B485D1080UB2750-4F0-XX-W2A-D_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008077
REPORT IS A COMBINATION OF REPORTS P984135 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D1080UB2750-4F0-XX-W2A-D_4000K
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

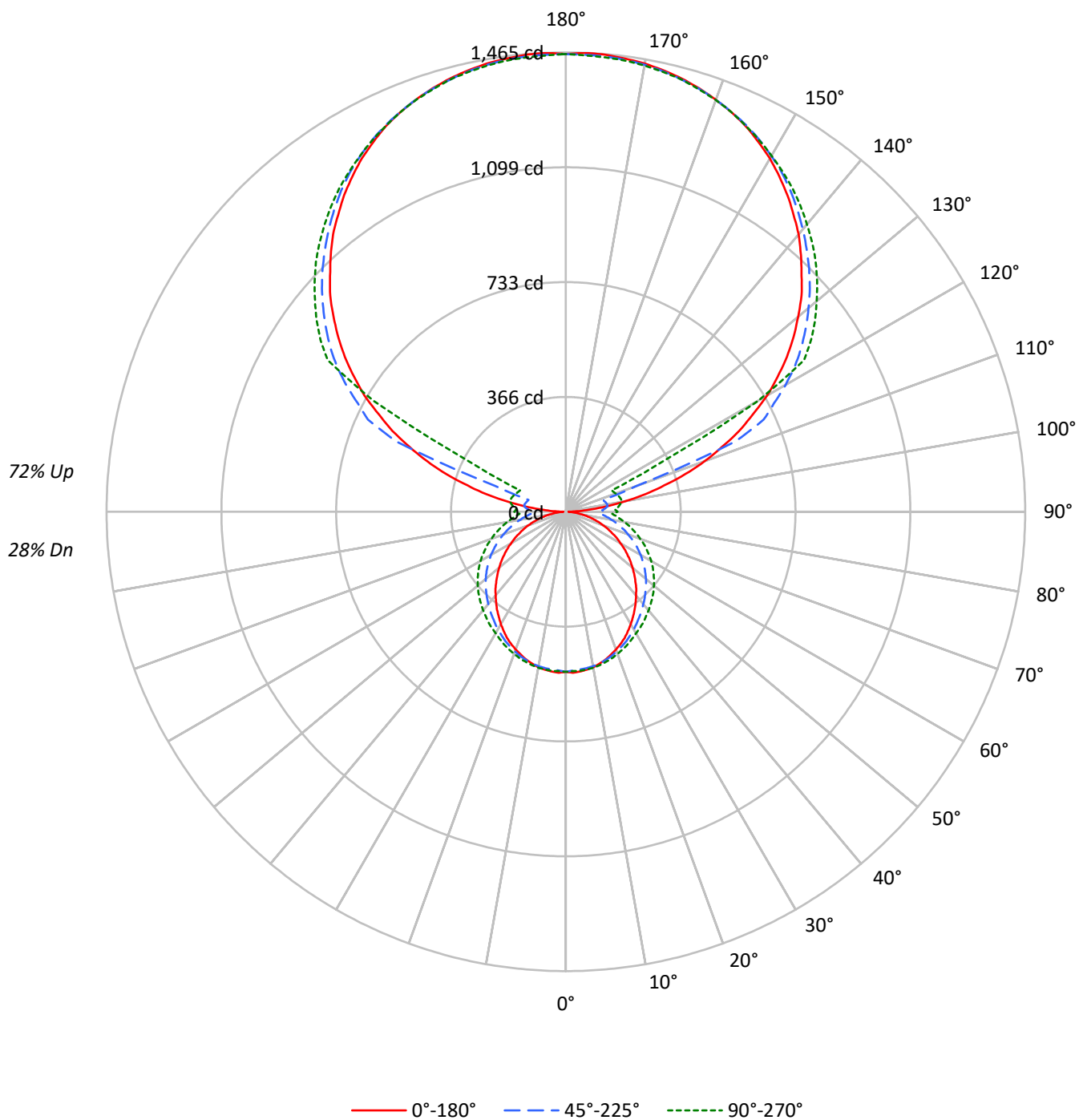
Lumens per Lamp: N/A
Luminaire Lumens: 6229.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 59
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	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	92	87	83	80	82	78	75	72	61	58	56	45	43	42	30	29	28
2	83	76	70	64	74	68	63	58	53	49	46	39	36	34	26	25	23
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	19
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	17
5	63	52	44	38	56	46	39	34	36	31	27	27	23	21	18	16	14
6	58	46	38	32	52	41	35	29	33	27	24	24	21	18	16	14	12
7	54	41	34	28	48	37	30	26	29	24	21	22	18	16	15	13	11
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	9
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8078	8078	8078
5°	8113	7733	7689
10°	8059	7464	7356
15°	7946	7188	7014
20°	7802	6896	6690
25°	7660	6618	6395
30°	7461	6336	6104
35°	7260	6063	5891
40°	7049	5826	5678
45°	6849	5612	5493
50°	6631	5415	5310
55°	6403	5205	5125
60°	6127	4986	4929
65°	5837	4736	4704
70°	5509	4467	4462
75°	5091	4198	4232
80°	4431	3916	3996
85°	3757	3653	3791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.4	0.8
10°-20°	138.7	2.2
20°-30°	210.2	3.4
30°-40°	256.0	4.1
40°-50°	275.4	4.4
50°-60°	267.5	4.3
60°-70°	233.6	3.7
70°-80°	179.8	2.9
80°-90°	123.0	2.0
90°-100°	131.2	2.1
100°-110°	240.1	3.9
110°-120°	515.9	8.3
120°-130°	811.6	13.0
130°-140°	847.8	13.6
140°-150°	780.8	12.5
150°-160°	626.5	10.1
160°-170°	403.7	6.5
170°-180°	138.9	2.2
0°-30°	397.3	6.4
0°-40°	653.3	10.5
0°-60°	1196.2	19.2
0°-90°	1732.5	27.8
90°-120°	887.2	14.2
90°-150°	3327.4	53.4
90°-180°	4496.0	72.2
0°-180°	6229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	512	510	505	510	509	49
15°	488	490	490	496	496	137
25°	444	449	456	464	467	204
35°	382	395	409	425	430	239
45°	314	334	359	382	390	242
55°	240	267	305	332	342	215
65°	164	200	244	274	284	163
75°	91	132	180	212	221	96
85°	27	72	120	151	161	28
90°	8	63	119	154	165	9
95°	75	74	126	160	167	86
105°	325	378	128	166	178	347
115°	610	636	696	229	161	601
125°	860	874	918	945	955	767
135°	1063	1080	1097	1123	1127	822
145°	1233	1232	1250	1261	1260	771
155°	1357	1348	1360	1367	1358	625
165°	1430	1424	1427	1434	1427	404
175°	1463	1456	1458	1465	1454	139
180°	1460	1460	1460	1460	1460	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	510.3	510.3	510.3	510.3	510.3
2.5°	514.0	511.7	506.6	510.3	508.8
5°	511.7	509.5	505.1	509.5	508.8
7.5°	508.0	506.6	502.9	508.0	507.3
10°	503.6	502.1	499.9	505.8	505.1
12.5°	496.2	497.0	495.5	501.4	500.7
15°	488.1	489.6	489.6	496.2	495.5
17.5°	477.7	480.7	482.9	489.6	489.6
20°	467.4	471.1	474.0	482.2	482.2
22.5°	456.3	460.7	465.2	473.3	474.8
25°	443.7	448.9	455.5	464.4	466.6
27.5°	428.9	437.1	444.4	455.5	457.0
30°	414.1	423.7	433.4	445.2	447.4
32.5°	397.9	409.0	420.8	434.8	439.3
35°	382.3	394.9	409.0	425.2	430.4
37.5°	365.3	379.4	397.1	414.9	420.0
40°	348.3	364.6	384.5	403.8	410.4
42.5°	332.0	348.3	372.0	393.4	400.1
45°	313.6	333.5	359.4	382.3	389.7
47.5°	295.8	317.3	346.8	370.5	378.6
50°	277.3	300.2	333.5	358.7	366.8
52.5°	259.6	284.0	319.5	345.4	354.2
55°	240.3	267.0	305.4	332.0	341.7
57.5°	221.9	251.4	289.9	318.7	328.3
60°	201.9	233.7	275.8	303.9	314.3
62.5°	184.1	217.4	259.6	289.9	299.5
65°	164.2	200.4	244.0	274.4	284.0
67.5°	146.4	184.1	228.5	258.8	269.2
70°	127.2	165.7	211.5	243.3	252.2
72.5°	109.4	149.4	196.0	227.0	238.1
75°	91.0	132.4	179.7	211.5	221.1
77.5°	73.2	116.1	164.2	196.0	206.3
80°	55.5	100.6	148.6	179.7	190.1
82.5°	40.7	85.0	133.9	164.9	174.5
85°	26.6	72.5	119.8	150.9	161.2
87.5°	16.3	60.6	108.0	138.3	147.9
90°	8.5	63.0	118.7	153.6	164.6
92.5°	33.1	68.1	116.3	147.3	157.2
95°	74.6	74.5	126.2	159.6	167.4
97.5°	128.8	74.0	133.8	164.2	174.2
100°	192.2	74.7	134.2	170.0	180.2
102.5°	261.1	283.4	131.1	169.3	180.6
105°	324.8	377.9	128.0	165.5	177.9
107.5°	399.8	443.9	124.9	161.8	174.1
110°	470.9	507.8	238.8	156.8	169.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	538.5	569.3	585.4	153.8	165.1
115°	610.3	636.4	696.1	229.3	161.3
117.5°	671.9	698.9	747.9	619.1	349.8
120°	741.6	760.4	809.0	842.4	707.9
122.5°	800.7	818.4	866.8	893.2	900.8
125°	860.2	874.0	917.6	945.0	954.9
127.5°	915.2	929.1	965.0	994.0	1001.8
130°	966.9	983.0	1010.2	1039.5	1044.4
132.5°	1019.7	1032.7	1055.4	1081.9	1086.8
135°	1063.3	1080.2	1097.1	1123.3	1127.0
137.5°	1109.8	1122.4	1136.7	1161.4	1163.4
140°	1155.2	1162.9	1176.0	1197.4	1196.5
142.5°	1193.2	1199.9	1213.6	1231.0	1229.4
145°	1232.6	1231.6	1249.5	1261.3	1259.8
147.5°	1267.5	1264.3	1282.3	1288.3	1286.3
150°	1301.3	1293.9	1310.8	1317.1	1311.9
152.5°	1329.8	1321.4	1337.2	1343.5	1336.2
155°	1357.3	1347.8	1360.4	1366.8	1358.3
157.5°	1379.5	1371.0	1380.5	1387.9	1379.5
160°	1398.5	1392.1	1398.5	1404.8	1397.4
162.5°	1415.4	1409.0	1414.3	1421.7	1412.2
165°	1430.2	1423.8	1427.0	1434.4	1427.0
167.5°	1441.8	1435.4	1438.6	1446.0	1436.5
170°	1451.3	1444.9	1447.1	1454.5	1444.9
172.5°	1457.6	1451.3	1453.4	1460.8	1451.3
175°	1462.9	1455.5	1457.6	1465.0	1454.5
177.5°	1465.0	1457.6	1458.7	1466.1	1456.6
180°	1459.7	1459.7	1459.7	1459.7	1459.7

(END OF REPORT)