

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: P1008075

Luminaire Tested: S122DIP-B485D1080UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008075
REPORT IS A COMBINATION OF REPORTS P984133 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_3000K
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

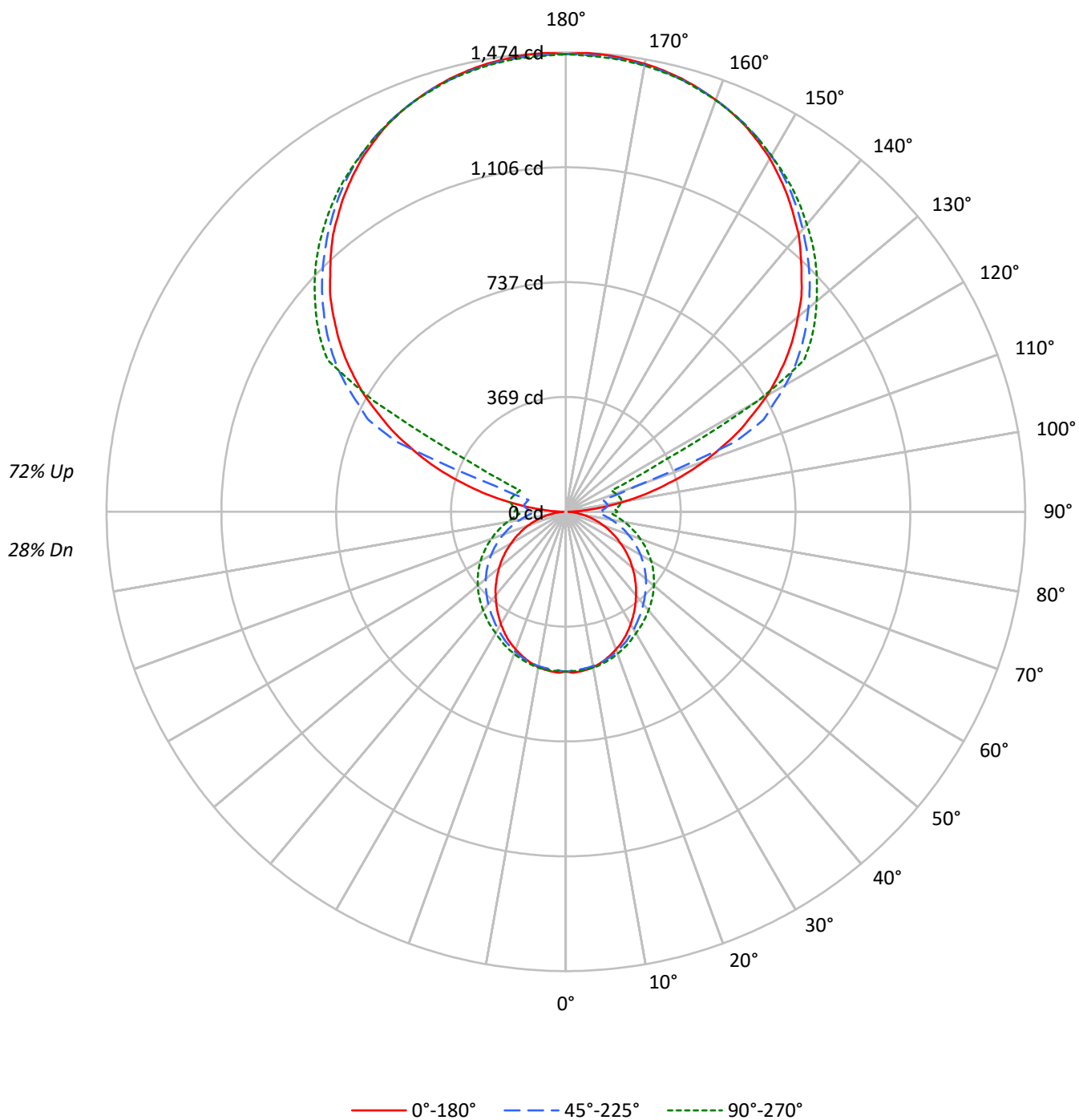
Lumens per Lamp: N/A
Luminaire Lumens: 6265.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36			28
1	92	87	83	80	82	78	75	72	61	58	56	45	43	42	30	29	28			22
2	83	76	70	64	74	68	63	58	53	49	46	39	36	34	26	25	23			18
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	19			14
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	16			12
5	63	52	44	38	56	46	39	34	36	31	27	27	23	21	18	16	14			10
6	58	46	38	32	52	41	35	29	33	27	24	24	21	18	16	14	12			9
7	54	41	34	28	48	37	30	26	29	24	21	22	18	16	15	13	11			8
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10			7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	9			6
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	12	9	8			6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8122	8122	8122
5°	8159	7775	7733
10°	8105	7506	7397
15°	7990	7228	7054
20°	7846	6935	6728
25°	7703	6655	6432
30°	7505	6371	6139
35°	7302	6097	5924
40°	7090	5859	5711
45°	6886	5643	5524
50°	6669	5445	5341
55°	6440	5234	5153
60°	6160	5015	4957
65°	5869	4763	4730
70°	5539	4492	4486
75°	5119	4221	4257
80°	4455	3940	4018
85°	3786	3674	3812

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6886 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.6	0.8
10°-20°	139.5	2.2
20°-30°	211.4	3.4
30°-40°	257.4	4.1
40°-50°	277.0	4.4
50°-60°	269.0	4.3
60°-70°	234.9	3.7
70°-80°	180.8	2.9
80°-90°	123.7	2.0
90°-100°	132.0	2.1
100°-110°	241.5	3.9
110°-120°	519.0	8.3
120°-130°	816.3	13.0
130°-140°	852.7	13.6
140°-150°	785.4	12.5
150°-160°	630.1	10.1
160°-170°	406.0	6.5
170°-180°	139.7	2.2
0°-30°	399.6	6.4
0°-40°	657.0	10.5
0°-60°	1202.9	19.2
0°-90°	1742.3	27.8
90°-120°	892.4	14.2
90°-150°	3346.8	53.4
90°-180°	4523.0	72.2
0°-180°	6265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	513	513	513	513	513	
5°	515	512	508	512	512	49
15°	491	492	492	499	498	138
25°	446	451	458	467	469	205
35°	384	397	411	428	433	240
45°	315	335	361	384	392	243
55°	242	268	307	334	344	216
65°	165	202	245	276	286	164
75°	92	133	181	213	222	97
85°	27	73	120	152	162	28
90°	8	63	119	154	166	9
95°	75	75	127	160	168	86
105°	327	380	129	166	179	349
115°	614	640	700	230	162	604
125°	865	879	923	951	960	772
135°	1070	1086	1104	1130	1134	826
145°	1240	1239	1257	1269	1267	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°	513.1	513.1	513.1	513.1	513.1
2.5°	516.9	514.6	509.4	513.1	511.7
5°	514.6	512.4	507.9	512.4	511.7
7.5°	510.9	509.4	505.7	510.9	510.2
10°	506.5	505.0	502.7	508.7	507.9
12.5°	499.0	499.8	498.3	504.2	503.5
15°	490.8	492.3	492.3	499.0	498.3
17.5°	480.4	483.4	485.6	492.3	492.3
20°	470.0	473.7	476.7	484.9	484.9
22.5°	458.9	463.3	467.8	476.0	477.5
25°	446.2	451.4	458.1	467.0	469.3
27.5°	431.3	439.5	447.0	458.1	459.6
30°	416.5	426.1	435.8	447.7	449.9
32.5°	400.1	411.3	423.2	437.3	441.8
35°	384.5	397.1	411.3	427.6	432.8
37.5°	367.4	381.5	399.4	417.2	422.4
40°	350.3	366.6	386.7	406.1	412.8
42.5°	333.9	350.3	374.1	395.6	402.3
45°	315.3	335.4	361.4	384.5	391.9
47.5°	297.5	319.0	348.8	372.6	380.8
50°	278.9	301.9	335.4	360.7	368.9
52.5°	261.0	285.6	321.3	347.3	356.2
55°	241.7	268.5	307.1	333.9	343.6
57.5°	223.1	252.9	291.5	320.5	330.2
60°	203.0	235.0	277.4	305.7	316.1
62.5°	185.2	218.6	261.0	291.5	301.2
65°	165.1	201.5	245.4	275.9	285.6
67.5°	147.3	185.2	229.8	260.3	270.7
70°	127.9	166.6	212.7	244.7	253.6
72.5°	110.1	150.2	197.1	228.3	239.5
75°	91.5	133.1	180.7	212.7	222.4
77.5°	73.6	116.8	165.1	197.1	207.5
80°	55.8	101.1	149.5	180.7	191.1
82.5°	40.9	85.5	134.6	165.8	175.5
85°	26.8	72.9	120.5	151.7	162.1
87.5°	16.4	61.0	108.6	139.1	148.7
90°	8.5	63.3	119.4	154.5	165.5
92.5°	33.3	68.4	117.0	148.1	158.1
95°	75.0	74.9	126.9	160.5	168.4
97.5°	129.5	74.4	134.5	165.2	175.2
100°	193.2	75.2	135.0	171.0	181.3
102.5°	262.7	285.0	131.9	170.3	181.7
105°	326.7	380.1	128.8	166.5	178.9
107.5°	402.1	446.6	125.7	162.6	175.1
110°	473.6	510.8	240.2	157.8	170.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	541.6	572.7	588.8	154.7	166.1
115°	613.9	640.1	700.1	230.5	162.2
117.5°	675.8	703.0	752.3	622.7	351.8
120°	745.9	764.8	813.8	847.3	712.1
122.5°	805.4	823.2	871.9	898.4	906.2
125°	865.2	879.1	923.0	950.6	960.5
127.5°	920.5	934.6	970.6	999.8	1007.6
130°	972.5	988.7	1016.1	1045.6	1050.6
132.5°	1025.7	1038.7	1061.6	1088.2	1093.2
135°	1069.5	1086.5	1103.5	1129.8	1133.5
137.5°	1116.2	1129.0	1143.4	1168.1	1170.1
140°	1161.9	1169.7	1182.9	1204.4	1203.5
142.5°	1200.2	1206.9	1220.7	1238.1	1236.5
145°	1239.8	1238.8	1256.8	1268.8	1267.2
147.5°	1274.9	1271.7	1289.8	1295.8	1293.8
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)