

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: P1009002

Luminaire Tested: S122DIP-B485D1080UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009002
REPORT IS A COMBINATION OF REPORTS P984147 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D1080UB30-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

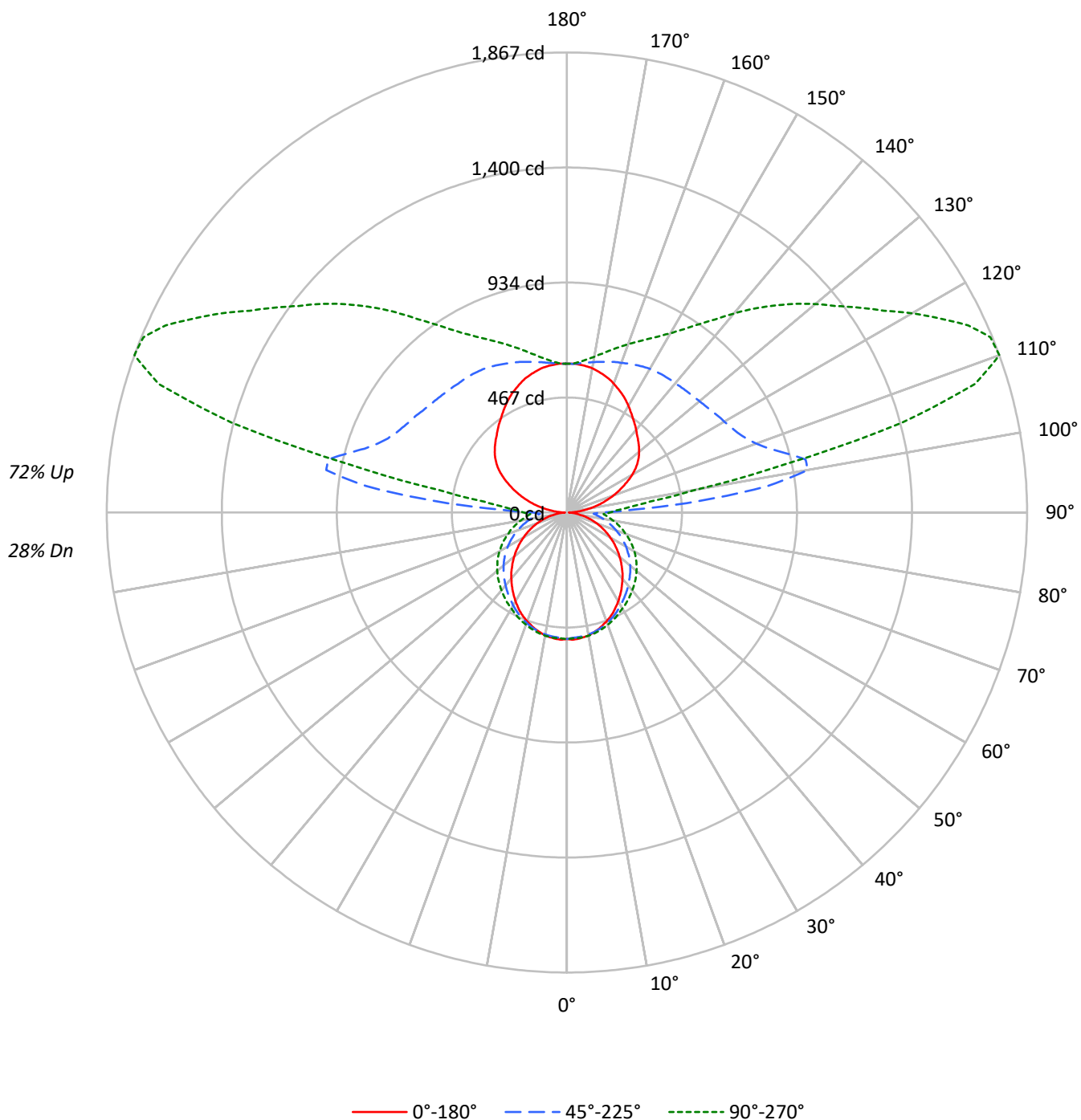
Lumens per Lamp: N/A
Luminaire Lumens: 6170.8 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	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	59	56	45	44	42	31	30	29			22
2	83	76	70	64	74	68	63	58	53	49	46	39	37	35	26	25	24			18
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	20			15
4	69	58	51	45	61	52	46	40	41	36	32	30	27	24	20	18	17			12
5	63	52	44	38	56	46	40	34	36	31	28	27	24	21	18	16	14			11
6	58	46	38	32	52	42	35	30	33	28	24	24	21	18	17	14	12			9
7	54	42	34	28	48	37	31	26	29	24	21	22	18	16	15	13	11			8
8	50	37	30	25	44	34	27	22	27	22	18	20	17	14	14	11	10			7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	13	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	2.3
20°-30°	211.4	3.4
30°-40°	257.4	4.2
40°-50°	277.0	4.5
50°-60°	269.0	4.4
60°-70°	234.9	3.8
70°-80°	180.8	2.9
80°-90°	124.9	2.0
90°-100°	328.3	5.3
100°-110°	888.4	14.4
110°-120°	909.9	14.7
120°-130°	737.6	12.0
130°-140°	584.1	9.5
140°-150°	435.7	7.1
150°-160°	305.2	4.9
160°-170°	179.7	2.9
170°-180°	58.5	0.9
0°-30°	399.6	6.5
0°-40°	657.0	10.6
0°-60°	1202.9	19.5
0°-90°	1743.6	28.3
90°-120°	2126.6	34.5
90°-150°	3883.9	62.9
90°-180°	4427.0	71.7
0°-180°	6170.8	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°	9	66	138	166	175	8
95°	46	141	541	286	255	47
105°	145	239	924	1628	1407	155
115°	253	326	764	1552	1797	250
125°	350	414	717	1249	1449	311
135°	409	488	692	1035	1187	316
145°	467	536	680	849	932	293
155°	531	573	661	747	777	244
165°	578	596	633	671	682	163
175°	602	603	608	616	614	57
180°	604	604	604	604	604	

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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°	8.6	66.2	137.7	165.6	175.1
92.5°	24.1	101.2	270.3	203.0	200.2
95°	46.5	140.8	540.6	285.6	255.0
97.5°	65.6	169.0	822.1	452.6	338.5
100°	94.6	194.0	991.5	788.6	525.7
102.5°	120.6	217.0	992.2	1256.9	914.4
105°	145.3	239.0	924.3	1627.6	1406.6
107.5°	173.2	260.8	861.0	1758.1	1736.1
110°	200.4	283.0	817.0	1730.1	1867.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.9	305.2	786.3	1650.0	1859.7
115°	252.6	326.4	764.4	1552.3	1796.8
117.5°	279.7	348.3	749.9	1459.5	1705.0
120°	305.2	369.8	737.4	1375.2	1617.3
122.5°	329.6	392.5	728.2	1309.0	1524.7
125°	349.8	413.6	717.2	1248.8	1448.7
127.5°	367.2	434.3	709.2	1195.7	1376.5
130°	382.3	453.4	702.5	1142.9	1316.1
132.5°	396.2	472.0	696.9	1088.4	1254.0
135°	409.4	488.2	692.0	1035.0	1187.2
137.5°	422.1	502.2	688.3	981.0	1122.1
140°	437.2	514.3	684.1	932.8	1054.5
142.5°	452.3	524.8	682.6	887.2	987.8
145°	466.7	536.4	680.3	849.1	932.3
147.5°	483.0	545.6	676.8	815.7	881.8
150°	499.2	555.0	673.3	789.4	839.4
152.5°	515.5	564.2	667.5	768.0	805.7
155°	530.6	572.9	660.6	747.1	776.7
157.5°	543.3	579.8	653.6	727.4	751.1
160°	556.1	586.8	646.6	707.6	726.8
162.5°	568.9	592.0	640.8	689.0	703.5
165°	578.2	595.6	632.7	671.0	681.5
167.5°	586.3	599.0	625.7	654.8	660.6
170°	594.4	600.8	619.9	639.6	642.0
172.5°	599.0	602.6	613.0	626.3	626.9
175°	602.5	603.1	608.3	615.9	614.1
177.5°	604.9	603.7	603.7	608.3	604.9
180°	603.7	603.7	603.7	603.7	603.7

(END OF REPORT)