

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: P1009026

Luminaire Tested: S122DIP-B485D1080UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009026
REPORT IS A COMBINATION OF REPORTS P984174 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D1080UB50-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

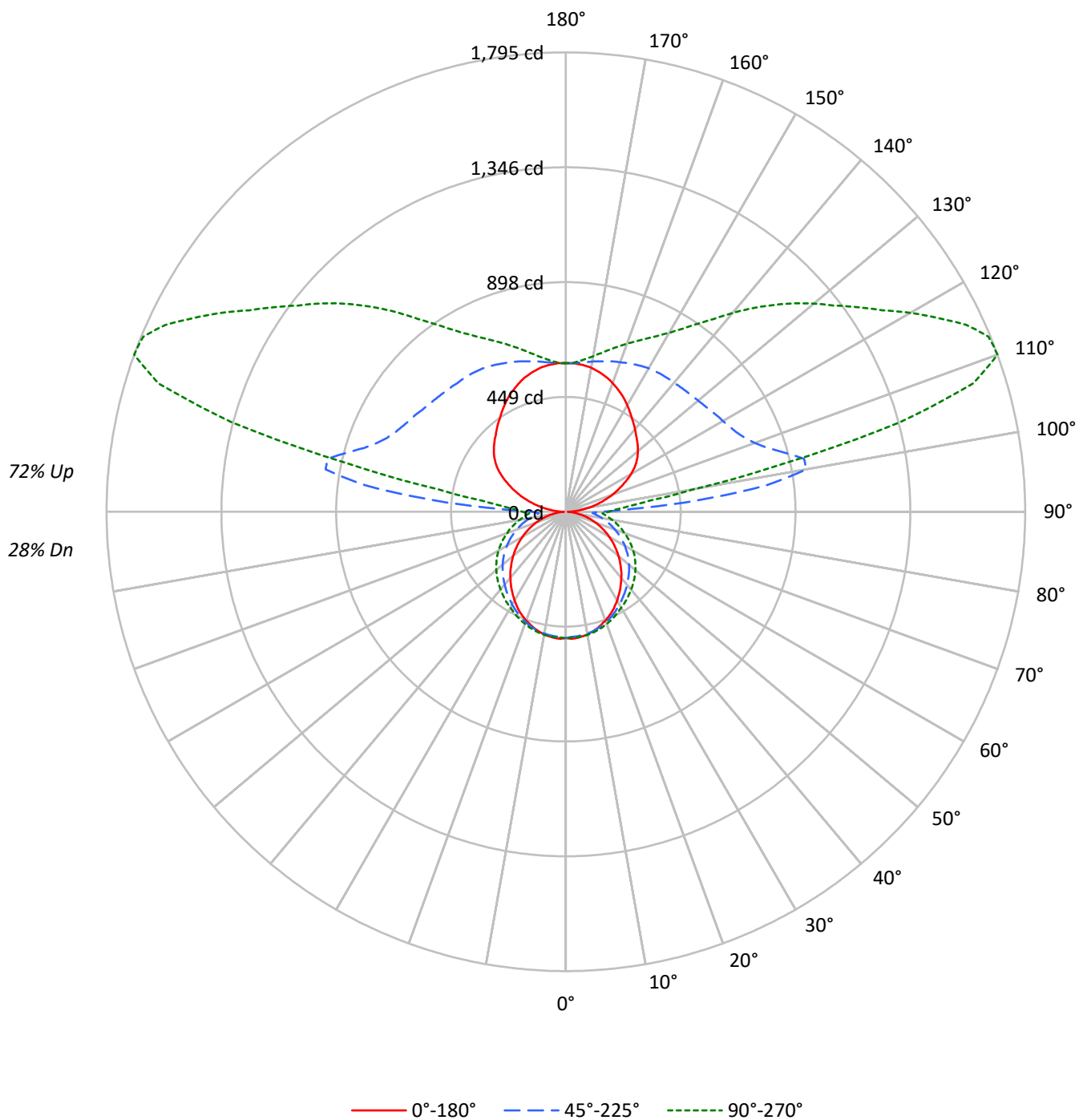
Lumens per Lamp: N/A
Luminaire Lumens: 5933.6 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	88	83	80	82	78	75	72	61	59	56	45	44	42	31	30	29
2	83	76	70	64	74	68	63	58	53	49	46	39	37	35	26	25	24
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	20
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	40	34	36	31	28	27	24	21	18	16	14
6	58	46	38	32	52	42	35	30	33	28	24	24	21	18	17	14	12
7	54	42	34	28	48	37	31	26	29	24	21	22	18	16	15	13	11
8	50	37	30	25	44	34	27	22	27	22	18	20	17	14	14	11	10
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	13	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°	7812	7812	7812
5°	7847	7478	7437
10°	7795	7220	7114
15°	7684	6952	6784
20°	7545	6669	6470
25°	7408	6401	6186
30°	7216	6127	5904
35°	7023	5863	5698
40°	6819	5635	5491
45°	6622	5428	5312
50°	6414	5238	5135
55°	6193	5035	4955
60°	5926	4824	4767
65°	5645	4580	4548
70°	5327	4319	4315
75°	4923	4060	4092
80°	4279	3789	3864
85°	3630	3534	3666

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 6622 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.8	0.8
10°-20°	134.2	2.3
20°-30°	203.3	3.4
30°-40°	247.6	4.2
40°-50°	266.4	4.5
50°-60°	258.7	4.4
60°-70°	225.9	3.8
70°-80°	173.9	2.9
80°-90°	120.1	2.0
90°-100°	315.6	5.3
100°-110°	854.2	14.4
110°-120°	874.9	14.7
120°-130°	709.2	12.0
130°-140°	561.6	9.5
140°-150°	418.9	7.1
150°-160°	293.4	4.9
160°-170°	172.8	2.9
170°-180°	56.2	0.9
0°-30°	384.3	6.5
0°-40°	631.8	10.6
0°-60°	1156.9	19.5
0°-90°	1676.8	28.3
90°-120°	2044.7	34.5
90°-150°	3734.4	62.9
90°-180°	4257.0	71.7
0°-180°	5933.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	494	494	494	494	494	
5°	495	493	488	493	492	47
15°	472	474	474	480	479	133
25°	429	434	441	449	451	197
35°	370	382	396	411	416	231
45°	303	323	348	370	377	234
55°	232	258	295	321	330	208
65°	159	194	236	265	275	158
75°	88	128	174	204	214	93
85°	26	70	116	146	156	27
90°	8	64	132	159	168	8
95°	45	135	520	275	245	45
105°	140	230	889	1565	1352	149
115°	243	314	735	1493	1728	241
125°	336	398	690	1201	1393	299
135°	394	470	665	995	1142	304
145°	449	516	654	816	896	282
155°	510	551	635	718	747	235
165°	556	573	608	645	655	157
175°	579	580	585	592	590	55
180°	580	580	580	580	580	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	493.5	493.5	493.5	493.5	493.5
2.5°	497.1	494.9	489.9	493.5	492.1
5°	494.9	492.8	488.5	492.8	492.1
7.5°	491.3	489.9	486.3	491.3	490.6
10°	487.1	485.6	483.5	489.2	488.5
12.5°	479.9	480.6	479.2	484.9	484.2
15°	472.0	473.5	473.5	479.9	479.2
17.5°	462.0	464.9	467.0	473.5	473.5
20°	452.0	455.6	458.4	466.3	466.3
22.5°	441.3	445.6	449.9	457.7	459.2
25°	429.1	434.1	440.6	449.2	451.3
27.5°	414.8	422.7	429.8	440.6	442.0
30°	400.5	409.8	419.1	430.6	432.7
32.5°	384.8	395.5	407.0	420.5	424.8
35°	369.8	381.9	395.5	411.2	416.3
37.5°	353.3	366.9	384.1	401.2	406.2
40°	336.9	352.6	371.9	390.5	396.9
42.5°	321.1	336.9	359.7	380.5	386.9
45°	303.2	322.6	347.6	369.8	376.9
47.5°	286.1	306.8	335.4	358.3	366.2
50°	268.2	290.4	322.6	346.9	354.7
52.5°	251.0	274.6	309.0	334.0	342.6
55°	232.4	258.2	295.4	321.1	330.4
57.5°	214.6	243.2	280.4	308.3	317.6
60°	195.3	226.0	266.8	294.0	304.0
62.5°	178.1	210.3	251.0	280.4	289.7
65°	158.8	193.8	236.0	265.3	274.6
67.5°	141.6	178.1	221.0	250.3	260.3
70°	123.0	160.2	204.5	235.3	243.9
72.5°	105.9	144.5	189.5	219.6	230.3
75°	88.0	128.0	173.8	204.5	213.8
77.5°	70.8	112.3	158.8	189.5	199.5
80°	53.6	97.3	143.8	173.8	183.8
82.5°	39.3	82.2	129.5	159.5	168.8
85°	25.7	70.1	115.9	145.9	155.9
87.5°	15.7	58.6	104.4	133.7	143.0
90°	8.3	63.6	132.4	159.2	168.4
92.5°	23.1	97.4	259.9	195.2	192.5
95°	44.8	135.3	519.8	274.6	245.3
97.5°	63.0	162.5	790.5	435.2	325.5
100°	91.0	186.6	953.3	758.2	505.5
102.5°	115.9	208.8	953.9	1208.6	879.2
105°	139.8	229.7	888.6	1565.0	1352.4
107.5°	166.6	250.6	827.8	1690.4	1669.3
110°	192.7	272.2	785.6	1663.6	1795.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.2	293.4	756.0	1586.5	1788.1
115°	242.9	313.8	735.0	1492.6	1727.6
117.5°	268.9	334.9	721.0	1403.4	1639.3
120°	293.4	355.5	708.9	1322.2	1555.0
122.5°	316.9	377.4	700.2	1258.6	1466.0
125°	336.3	397.6	689.6	1200.6	1392.9
127.5°	353.0	417.6	681.9	1149.7	1323.5
130°	367.5	436.0	675.4	1099.0	1265.4
132.5°	380.9	453.9	670.0	1046.4	1205.7
135°	393.6	469.6	665.4	995.2	1141.5
137.5°	405.9	482.9	661.8	943.3	1078.9
140°	420.4	494.5	657.8	897.0	1014.0
142.5°	434.9	504.6	656.4	853.0	949.9
145°	448.7	515.7	654.1	816.4	896.4
147.5°	464.4	524.6	650.8	784.3	847.9
150°	480.0	533.6	647.4	759.0	807.0
152.5°	495.6	542.5	641.8	738.4	774.7
155°	510.1	550.8	635.1	718.3	746.8
157.5°	522.4	557.6	628.4	699.3	722.2
160°	534.7	564.2	621.8	680.3	698.8
162.5°	547.0	569.3	616.2	662.5	676.4
165°	555.9	572.6	608.4	645.2	655.2
167.5°	563.7	576.0	601.7	629.6	635.1
170°	571.5	577.6	596.1	615.0	617.3
172.5°	576.0	579.4	589.4	602.2	602.8
175°	579.3	579.9	584.9	592.2	590.5
177.5°	581.6	580.5	580.5	584.9	581.6
180°	580.5	580.5	580.5	580.5	580.5

(END OF REPORT)