

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: P1008993

Luminaire Tested: S122DIP-B485D1080UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008993
REPORT IS A COMBINATION OF REPORTS P984123 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D1080UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

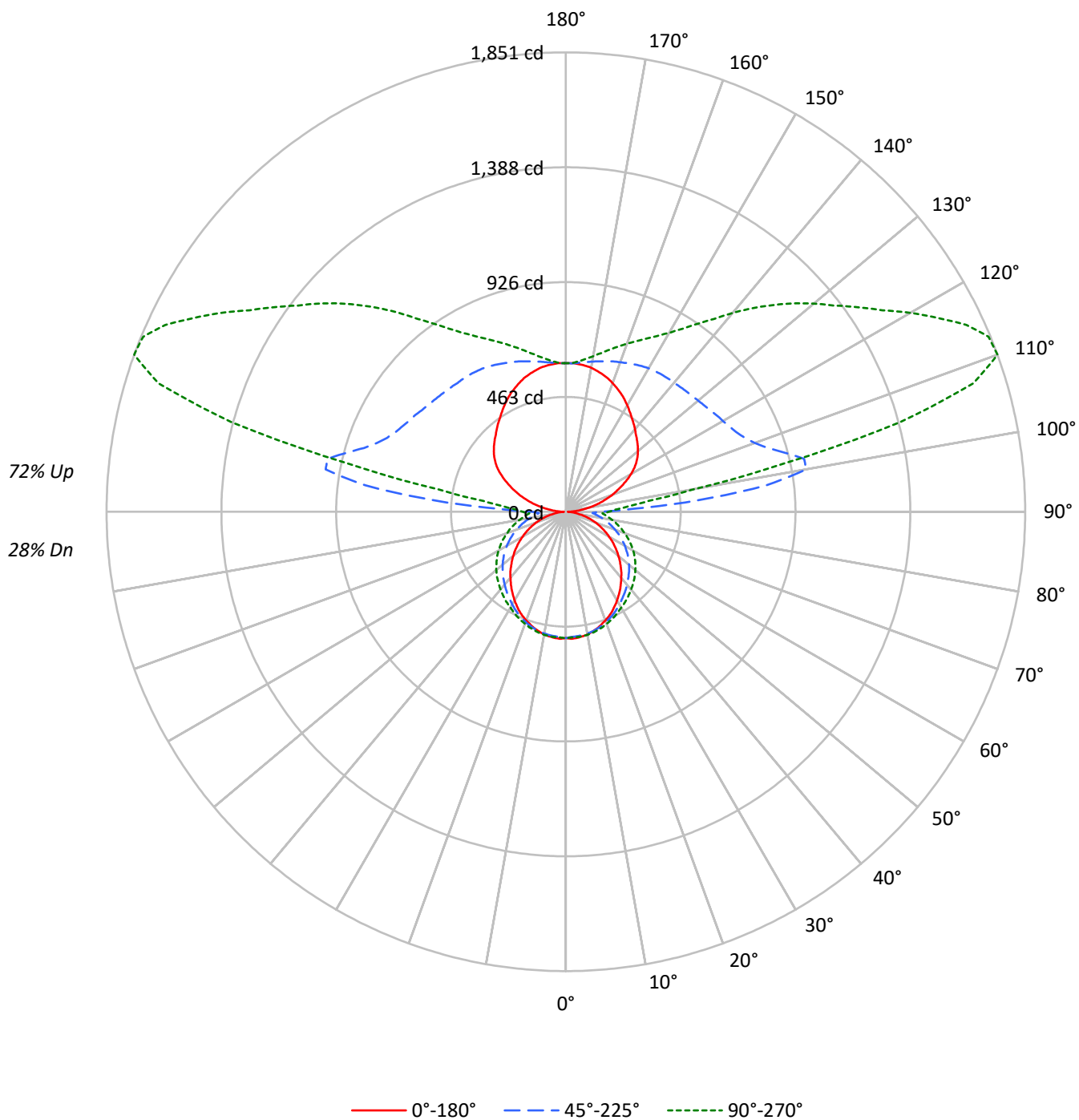
Lumens per Lamp: N/A
Luminaire Lumens: 6117.8 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1008993

CATALOG NUMBER: S122DIP-B485D1080UB27-4F0-XX-W2A-D4

Luminous Intensity Polar Plot





TEST NUMBER: P1008993

CATALOG NUMBER: S122DIP-B485D1080UB27-4F0-XX-W2A-D4

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8052	8052	8052
5°	8089	7708	7665
10°	8035	7442	7332
15°	7921	7166	6992
20°	7777	6876	6670
25°	7636	6597	6376
30°	7440	6315	6085
35°	7240	6043	5873
40°	7027	5809	5661
45°	6827	5595	5476
50°	6612	5398	5294
55°	6384	5190	5108
60°	6108	4972	4913
65°	5819	4722	4689
70°	5491	4454	4447
75°	5074	4184	4219
80°	4415	3905	3984
85°	3743	3641	3779

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6827 cd/sqm

TEST NUMBER: P1008993

CATALOG NUMBER: S122DIP-B485D1080UB27-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.2	0.8
10°-20°	138.3	2.3
20°-30°	209.6	3.4
30°-40°	255.2	4.2
40°-50°	274.6	4.5
50°-60°	266.6	4.4
60°-70°	232.9	3.8
70°-80°	179.2	2.9
80°-90°	123.8	2.0
90°-100°	325.4	5.3
100°-110°	880.7	14.4
110°-120°	902.1	14.7
120°-130°	731.3	12.0
130°-140°	579.1	9.5
140°-150°	432.0	7.1
150°-160°	302.6	4.9
160°-170°	178.2	2.9
170°-180°	58.0	0.9
0°-30°	396.1	6.5
0°-40°	651.3	10.6
0°-60°	1192.5	19.5
0°-90°	1728.4	28.3
90°-120°	2108.3	34.5
90°-150°	3850.6	62.9
90°-180°	4389.0	71.7
0°-180°	6117.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	509	509	509	509	509	
5°	510	508	504	508	507	48
15°	487	488	488	495	494	137
25°	442	448	454	463	465	203
35°	381	394	408	424	429	238
45°	313	332	358	381	388	241
55°	240	266	304	331	341	214
65°	164	200	243	274	283	163
75°	91	132	179	211	220	96
85°	26	72	119	150	161	28
90°	9	66	136	164	174	8
95°	46	140	536	283	253	46
105°	144	237	916	1614	1394	153
115°	250	324	758	1539	1782	248
125°	347	410	711	1238	1436	309
135°	406	484	686	1026	1177	314
145°	463	532	674	842	924	290
155°	526	568	655	741	770	242
165°	573	590	627	665	676	162
175°	597	598	603	611	609	57
180°	598	598	598	598	598	

TEST NUMBER: P1008993

CATALOG NUMBER: S122DIP-B485D1080UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.7	508.7	508.7	508.7	508.7
2.5°	512.4	510.2	505.0	508.7	507.2
5°	510.2	508.0	503.5	508.0	507.2
7.5°	506.5	505.0	501.3	506.5	505.7
10°	502.1	500.6	498.4	504.3	503.5
12.5°	494.7	495.4	493.9	499.8	499.1
15°	486.6	488.1	488.1	494.7	493.9
17.5°	476.3	479.2	481.4	488.1	488.1
20°	465.9	469.6	472.6	480.7	480.7
22.5°	454.9	459.3	463.7	471.8	473.3
25°	442.3	447.5	454.1	463.0	465.2
27.5°	427.6	435.7	443.1	454.1	455.6
30°	412.9	422.4	432.0	443.8	446.0
32.5°	396.6	407.7	419.5	433.5	437.9
35°	381.2	393.7	407.7	423.9	429.1
37.5°	364.2	378.2	395.9	413.6	418.8
40°	347.2	363.5	383.4	402.5	409.2
42.5°	331.0	347.2	370.8	392.2	398.8
45°	312.6	332.5	358.3	381.2	388.5
47.5°	294.9	316.3	345.8	369.4	377.5
50°	276.5	299.3	332.5	357.6	365.7
52.5°	258.8	283.1	318.5	344.3	353.1
55°	239.6	266.1	304.5	331.0	340.6
57.5°	221.2	250.7	289.0	317.7	327.3
60°	201.3	233.0	275.0	303.0	313.3
62.5°	183.6	216.7	258.8	289.0	298.6
65°	163.7	199.8	243.3	273.5	283.1
67.5°	146.0	183.6	227.8	258.0	268.4
70°	126.8	165.1	210.9	242.6	251.4
72.5°	109.1	148.9	195.4	226.3	237.4
75°	90.7	132.0	179.1	210.9	220.4
77.5°	73.0	115.7	163.7	195.4	205.7
80°	55.3	100.3	148.2	179.1	189.5
82.5°	40.5	84.8	133.4	164.4	174.0
85°	26.5	72.2	119.4	150.4	160.7
87.5°	16.2	60.5	107.6	137.9	147.4
90°	8.6	65.6	136.4	164.2	173.7
92.5°	23.9	100.4	268.0	201.1	198.5
95°	46.2	139.5	536.0	283.2	252.8
97.5°	65.1	167.5	815.1	448.8	335.5
100°	93.8	192.4	983.0	781.8	521.2
102.5°	119.5	215.2	983.7	1246.1	906.6
105°	144.1	236.9	916.3	1613.7	1394.5
107.5°	171.7	258.5	853.5	1743.0	1721.2
110°	198.6	280.7	810.0	1715.3	1851.2

TEST NUMBER: P1008993

CATALOG NUMBER: S122DIP-B485D1080UB27-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	223.9	302.4	779.6	1635.9	1843.8
115°	250.4	323.6	757.8	1539.1	1781.5
117.5°	277.3	345.4	743.5	1447.0	1690.4
120°	302.6	366.6	731.1	1363.4	1603.5
122.5°	326.8	389.1	722.0	1297.8	1511.7
125°	346.8	410.1	711.1	1238.1	1436.3
127.5°	364.1	430.6	703.2	1185.5	1364.8
130°	379.0	449.6	696.4	1133.1	1304.8
132.5°	392.8	468.0	690.9	1079.1	1243.3
135°	405.9	484.1	686.0	1026.1	1177.1
137.5°	418.5	498.0	682.3	972.6	1112.5
140°	433.5	509.9	678.3	924.9	1045.6
142.5°	448.4	520.2	676.8	879.6	979.4
145°	462.7	531.8	674.5	841.8	924.3
147.5°	478.8	541.0	671.0	808.7	874.2
150°	494.9	550.2	667.6	782.6	832.2
152.5°	511.0	559.4	661.8	761.4	798.8
155°	526.0	568.0	654.9	740.6	770.0
157.5°	538.7	574.9	648.0	721.1	744.7
160°	551.3	581.8	641.1	701.6	720.5
162.5°	564.0	587.0	635.4	683.1	697.5
165°	573.2	590.4	627.3	665.3	675.6
167.5°	581.3	593.9	620.4	649.2	654.9
170°	589.3	595.6	614.6	634.2	636.5
172.5°	593.9	597.4	607.7	621.0	621.5
175°	597.4	598.0	603.1	610.6	608.9
177.5°	599.7	598.5	598.5	603.1	599.7
180°	598.5	598.5	598.5	598.5	598.5

(END OF REPORT)