

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: P1008996

Luminaire Tested: S122DIP-B485D1080UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008996
REPORT IS A COMBINATION OF REPORTS P984126 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-F4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

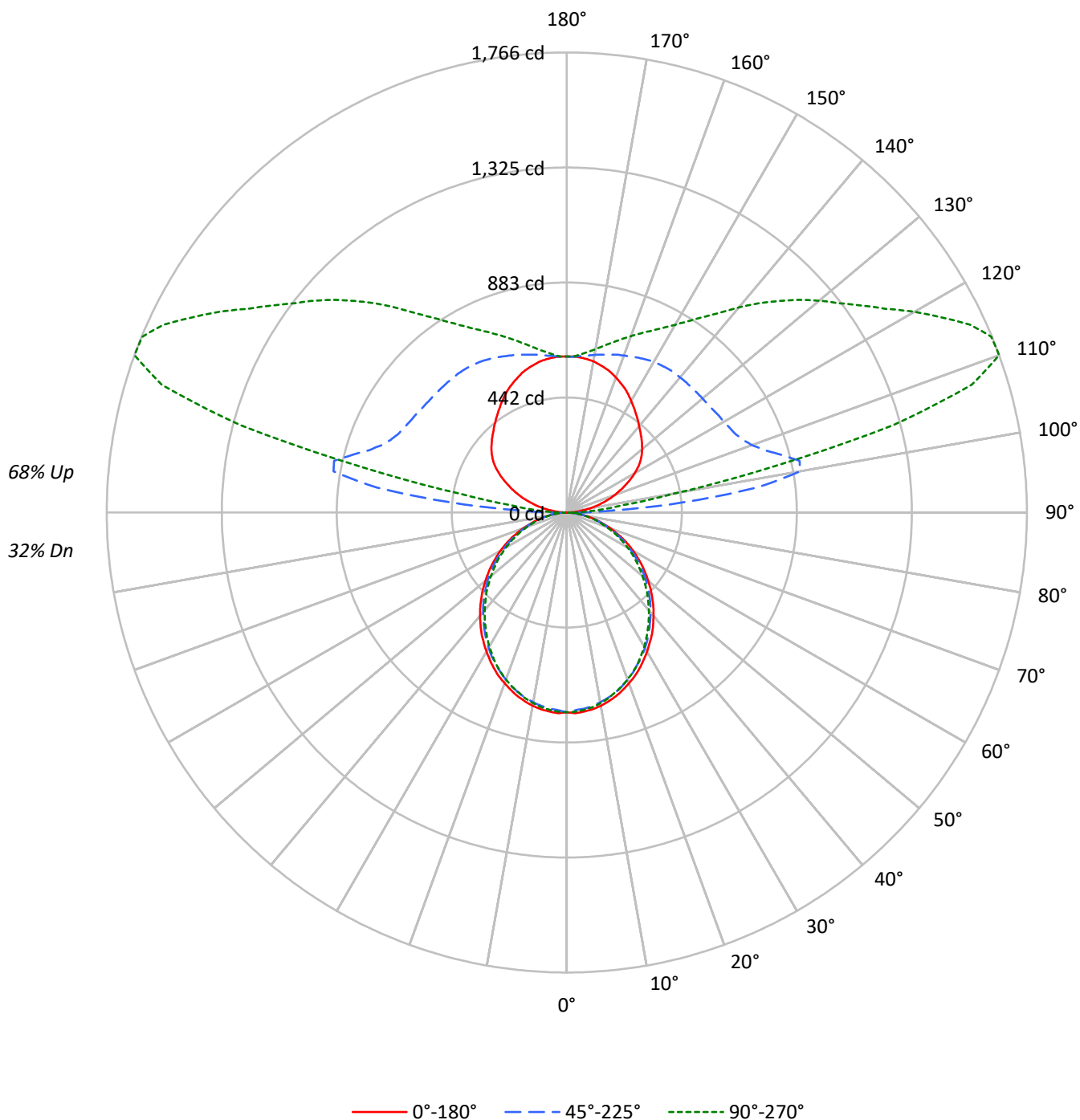
Lumens per Lamp: N/A
Luminaire Lumens: 6127.8 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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: P1008996

CATALOG NUMBER: S122DIP-B485D1080UB27-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1008996

CATALOG NUMBER: S122DIP-B485D1080UB27-4F0-XX-W2A-F4

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	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40
1	94	90	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33
2	85	78	72	67	76	70	65	61	56	53	50	43	41	39	31	29	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	33	27	25	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	21
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	12
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12139	12139	12139
5°	12159	11571	11488
10°	12060	11044	10825
15°	11883	10512	10125
20°	11644	9934	9464
25°	11407	9330	8802
30°	11106	8764	8109
35°	10825	8165	7428
40°	10476	7574	6783
45°	10129	6989	6152
50°	9752	6394	5497
55°	9353	5755	4877
60°	8906	5066	4232
65°	8415	4365	3554
70°	7791	3597	2869
75°	6931	2773	2216
80°	5884	1884	1425
85°	4266	878	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10129 cd/sqm

TEST NUMBER: P1008996

CATALOG NUMBER: S122DIP-B485D1080UB27-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	1.2
10°-20°	203.1	3.3
20°-30°	298.4	4.9
30°-40°	346.6	5.7
40°-50°	346.2	5.6
50°-60°	301.9	4.9
60°-70°	223.1	3.6
70°-80°	126.3	2.1
80°-90°	37.1	0.6
90°-100°	242.6	4.0
100°-110°	820.3	13.4
110°-120°	862.2	14.1
120°-130°	709.0	11.6
130°-140°	569.7	9.3
140°-150°	430.4	7.0
150°-160°	302.6	4.9
160°-170°	178.2	2.9
170°-180°	58.0	0.9
0°-30°	573.7	9.4
0°-40°	920.3	15.0
0°-60°	1568.3	25.6
0°-90°	1954.8	31.9
90°-120°	1925.1	31.4
90°-150°	3634.3	59.3
90°-180°	4173.0	68.1
0°-180°	6127.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	767	767	767	767	767	
5°	767	764	756	762	760	73
15°	730	726	716	719	715	206
25°	661	655	642	644	642	304
35°	570	563	551	546	543	356
45°	464	459	448	440	436	358
55°	351	347	338	329	325	314
65°	237	232	225	218	215	234
75°	124	122	119	114	116	132
85°	30	30	29	26	26	34
90°	1	16	39	37	38	5
95°	40	99	451	170	131	42
105°	140	212	853	1524	1297	149
115°	248	312	714	1473	1707	245
125°	345	409	686	1193	1385	307
135°	405	483	678	1003	1148	313
145°	463	532	674	837	916	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: P1008996

CATALOG NUMBER: S122DIP-B485D1080UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	766.9	766.9	766.9	766.9	766.9
2.5°	771.3	767.6	759.5	766.9	765.4
5°	766.9	763.9	755.8	761.7	760.2
7.5°	761.7	757.3	749.2	755.1	753.6
10°	753.6	748.4	739.6	745.5	743.3
12.5°	742.5	738.1	729.2	732.9	731.5
15°	730.0	725.6	716.0	718.9	715.2
17.5°	714.5	710.1	700.5	704.2	700.5
20°	697.5	693.1	682.8	685.0	682.1
22.5°	680.6	673.9	664.4	664.4	662.9
25°	660.7	654.8	642.2	643.7	642.2
27.5°	638.6	633.4	623.8	621.6	617.9
30°	616.4	610.5	599.5	597.3	594.3
32.5°	592.8	588.4	576.6	572.2	569.2
35°	570.0	562.6	550.8	546.4	542.7
37.5°	544.2	537.5	525.7	520.6	516.9
40°	517.6	511.7	499.9	493.3	490.3
42.5°	491.8	485.9	474.1	466.7	462.3
45°	463.8	458.6	447.6	439.5	436.5
47.5°	436.5	431.4	419.6	411.4	407.0
50°	407.8	404.1	393.8	383.4	379.7
52.5°	379.7	374.6	365.0	356.9	351.7
55°	351.0	346.6	337.7	328.9	325.2
57.5°	322.2	318.5	309.0	300.1	297.2
60°	293.5	290.5	280.2	272.1	269.9
62.5°	265.4	260.3	252.9	245.5	242.6
65°	236.7	232.3	224.9	218.3	214.6
67.5°	207.2	203.5	196.9	191.7	188.8
70°	179.9	177.0	170.3	165.2	162.2
72.5°	151.9	148.9	145.3	140.1	137.9
75°	123.9	122.4	118.7	114.3	115.8
77.5°	98.8	95.9	94.4	92.2	90.0
80°	73.7	73.0	71.5	69.3	67.8
82.5°	50.1	50.1	49.4	46.5	46.5
85°	30.2	29.5	28.8	26.5	25.8
87.5°	13.3	11.8	10.3	8.1	7.4
90°	1.2	15.6	39.1	37.4	38.0
92.5°	17.3	54.6	177.3	81.7	70.2
95°	40.3	99.0	451.2	170.4	131.2
97.5°	59.9	130.6	735.5	341.8	219.8
100°	88.6	160.0	909.3	680.8	412.1
102.5°	115.1	186.4	915.1	1151.0	803.4
105°	140.4	211.8	852.9	1524.5	1297.2
107.5°	168.0	237.1	795.3	1659.8	1629.8
110°	195.7	263.0	756.2	1637.9	1765.7

TEST NUMBER: P1008996

CATALOG NUMBER: S122DIP-B485D1080UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	221.0	287.8	730.9	1563.6	1763.4
115°	247.5	312.5	713.6	1472.7	1707.0
117.5°	275.1	337.2	704.4	1385.8	1621.8
120°	300.4	361.4	696.4	1308.2	1540.1
122.5°	324.6	386.2	691.8	1247.7	1454.9
125°	345.3	408.6	686.0	1193.1	1384.7
127.5°	362.6	429.9	682.6	1146.4	1319.1
130°	377.5	448.9	680.2	1099.2	1265.0
132.5°	391.3	467.3	679.1	1050.3	1208.6
135°	405.2	483.4	677.9	1002.6	1147.6
137.5°	417.8	497.2	677.9	954.2	1088.9
140°	432.8	509.9	676.8	911.6	1027.9
142.5°	447.7	520.2	676.8	870.8	966.9
145°	462.7	531.8	674.5	837.4	916.2
147.5°	478.8	541.0	671.0	808.0	871.3
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)