

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: P1009009

Luminaire Tested: S122DIP-B485D1080UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009009
REPORT IS A COMBINATION OF REPORTS P984154 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D1080UB35-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

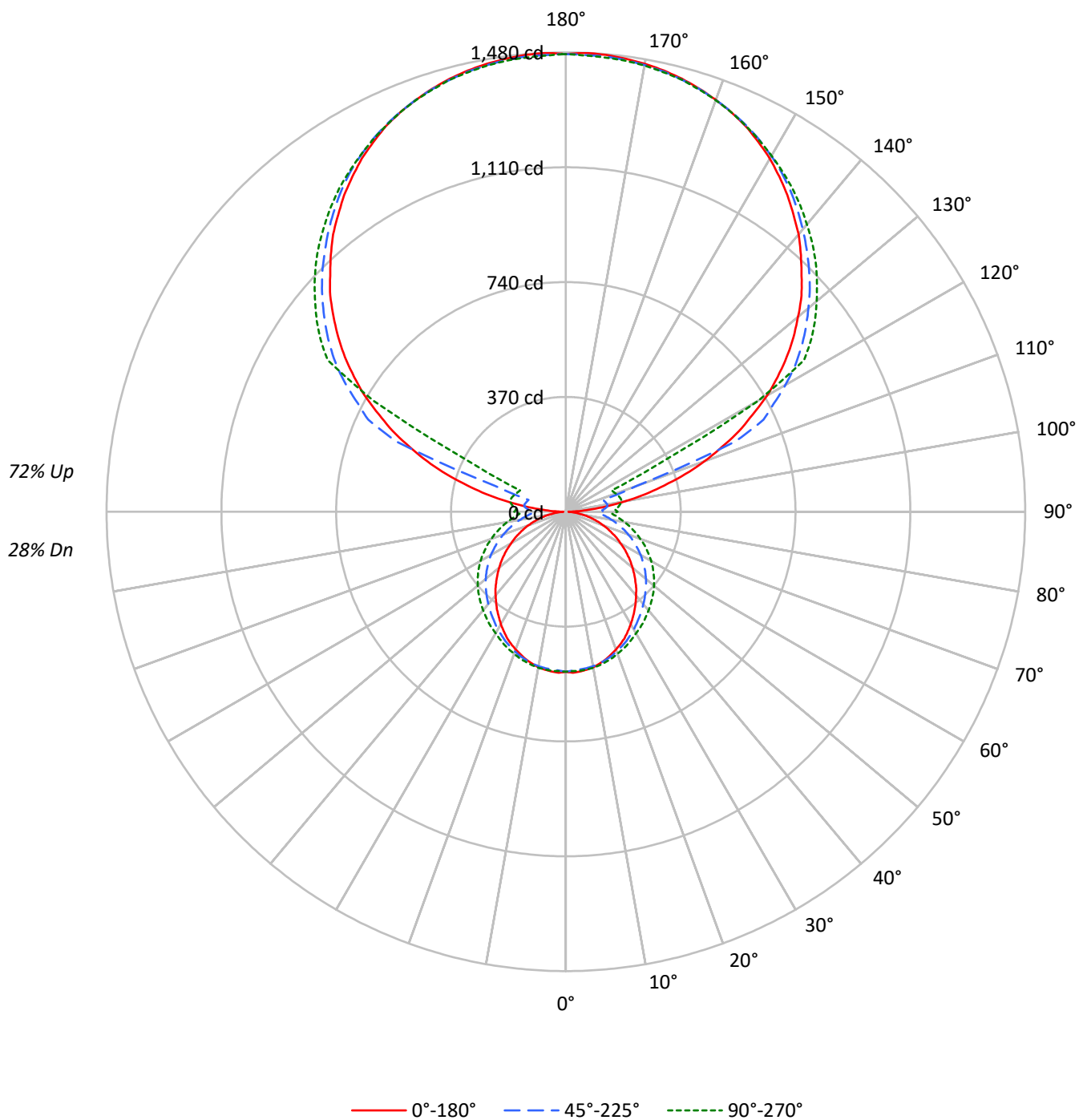
Lumens per Lamp: N/A
Luminaire Lumens: 6291.9 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1009009

CATALOG NUMBER: S122DIP-B485D1080UB35-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1009009

CATALOG NUMBER: S122DIP-B485D1080UB35-4F0-XX-W2A-D

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	87	83	80	82	78	75	72	61	58	56	45	43	42	30	29	28
2	83	76	70	64	74	68	63	58	53	49	46	39	36	34	26	25	23
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	19
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	39	34	36	31	27	27	23	21	18	16	14
6	58	46	38	32	52	41	35	29	33	27	24	24	21	18	16	14	12
7	54	41	34	28	48	37	30	26	29	24	21	22	18	16	15	13	11
8	50	37	30	25	44	34	27	22	27	22	18	20	16	14	14	11	10
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	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°	8160	8160	8160
5°	8197	7812	7768
10°	8142	7541	7431
15°	8027	7262	7087
20°	7883	6968	6758
25°	7740	6686	6461
30°	7539	6400	6167
35°	7336	6125	5951
40°	7122	5886	5736
45°	6919	5670	5549
50°	6701	5470	5365
55°	6470	5260	5177
60°	6190	5039	4979
65°	5898	4784	4752
70°	5565	4513	4508
75°	5141	4240	4276
80°	4471	3958	4036
85°	3800	3690	3831

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6919 cd/sqm

TEST NUMBER: P1009009

CATALOG NUMBER: S122DIP-B485D1080UB35-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	0.8
10°-20°	140.2	2.2
20°-30°	212.4	3.4
30°-40°	258.6	4.1
40°-50°	278.2	4.4
50°-60°	270.2	4.3
60°-70°	236.0	3.8
70°-80°	181.6	2.9
80°-90°	124.2	2.0
90°-100°	132.5	2.1
100°-110°	242.5	3.9
110°-120°	521.1	8.3
120°-130°	819.8	13.0
130°-140°	856.3	13.6
140°-150°	788.6	12.5
150°-160°	632.7	10.1
160°-170°	407.7	6.5
170°-180°	140.3	2.2
0°-30°	401.4	6.4
0°-40°	660.0	10.5
0°-60°	1208.5	19.2
0°-90°	1750.3	27.8
90°-120°	896.2	14.2
90°-150°	3360.8	53.4
90°-180°	4542.0	72.2
0°-180°	6291.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	517	515	510	515	514	49
15°	493	495	495	501	501	139
25°	448	454	460	469	471	206
35°	386	399	413	430	435	241
45°	317	337	363	386	394	245
55°	243	270	309	336	345	217
65°	166	202	246	277	287	165
75°	92	134	182	214	223	97
85°	27	73	121	152	163	28
90°	9	64	120	155	166	9
95°	75	75	128	161	169	87
105°	328	382	129	167	180	351
115°	616	643	703	232	163	607
125°	869	883	927	955	964	775
135°	1074	1091	1108	1134	1138	830
145°	1245	1244	1262	1274	1272	779
155°	1371	1361	1374	1380	1372	632
165°	1444	1438	1441	1449	1441	408
175°	1478	1470	1472	1480	1469	141
180°	1474	1474	1474	1474	1474	

TEST NUMBER: P1009009

CATALOG NUMBER: S122DIP-B485D1080UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	515.5	515.5	515.5	515.5	515.5
2.5°	519.2	517.0	511.8	515.5	514.0
5°	517.0	514.8	510.3	514.8	514.0
7.5°	513.3	511.8	508.0	513.3	512.5
10°	508.8	507.3	505.0	511.0	510.3
12.5°	501.3	502.1	500.6	506.5	505.8
15°	493.1	494.6	494.6	501.3	500.6
17.5°	482.6	485.6	487.9	494.6	494.6
20°	472.2	475.9	478.9	487.1	487.1
22.5°	461.0	465.5	469.9	478.2	479.6
25°	448.3	453.5	460.2	469.2	471.4
27.5°	433.3	441.5	449.0	460.2	461.7
30°	418.4	428.1	437.8	449.8	452.0
32.5°	401.9	413.2	425.1	439.3	443.8
35°	386.3	399.0	413.2	429.6	434.8
37.5°	369.1	383.3	401.2	419.1	424.4
40°	351.9	368.3	388.5	407.9	414.6
42.5°	335.5	351.9	375.8	397.5	404.2
45°	316.8	336.9	363.1	386.3	393.7
47.5°	298.8	320.5	350.4	374.3	382.5
50°	280.2	303.3	336.9	362.4	370.6
52.5°	262.2	286.9	322.8	348.9	357.9
55°	242.8	269.7	308.6	335.5	345.2
57.5°	224.1	254.0	292.9	322.0	331.7
60°	204.0	236.1	278.7	307.1	317.5
62.5°	186.0	219.7	262.2	292.9	302.6
65°	165.9	202.5	246.5	277.2	286.9
67.5°	147.9	186.0	230.9	261.5	271.9
70°	128.5	167.4	213.7	245.8	254.8
72.5°	110.6	150.9	198.0	229.4	240.6
75°	91.9	133.7	181.5	213.7	223.4
77.5°	74.0	117.3	165.9	198.0	208.4
80°	56.0	101.6	150.2	181.5	192.0
82.5°	41.1	85.9	135.2	166.6	176.3
85°	26.9	73.2	121.0	152.4	162.9
87.5°	16.4	61.3	109.1	139.7	149.4
90°	8.6	63.6	119.9	155.2	166.3
92.5°	33.4	68.7	117.5	148.7	158.8
95°	75.3	75.2	127.5	161.2	169.2
97.5°	130.0	74.7	135.1	165.9	176.0
100°	194.0	75.6	135.5	171.7	182.1
102.5°	263.7	286.2	132.4	171.1	182.5
105°	328.0	381.7	129.4	167.2	179.7
107.5°	403.8	448.4	126.2	163.3	175.8
110°	475.6	512.9	241.2	158.4	171.0

TEST NUMBER: P1009009

CATALOG NUMBER: S122DIP-B485D1080UB35-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	543.9	575.0	591.3	155.3	166.7
115°	616.4	642.8	703.0	231.5	163.0
117.5°	678.6	705.9	755.5	625.3	353.3
120°	749.0	768.0	817.1	850.8	715.1
122.5°	808.7	826.6	875.5	902.2	909.9
125°	868.9	882.7	926.9	954.6	964.5
127.5°	924.3	938.5	974.7	1004.0	1011.8
130°	976.6	992.9	1020.3	1050.0	1054.9
132.5°	1029.9	1043.0	1066.1	1092.8	1097.7
135°	1074.0	1091.0	1108.1	1134.5	1138.4
137.5°	1120.9	1133.7	1148.2	1173.0	1175.0
140°	1166.8	1174.6	1187.8	1209.3	1208.5
142.5°	1205.2	1211.9	1225.8	1243.4	1241.7
145°	1245.0	1244.0	1262.1	1274.1	1272.4
147.5°	1280.2	1277.0	1295.2	1301.2	1299.2
150°	1314.4	1306.9	1324.0	1330.4	1325.0
152.5°	1343.2	1334.6	1350.6	1357.0	1349.6
155°	1370.9	1361.3	1374.1	1380.5	1372.0
157.5°	1393.3	1384.8	1394.4	1401.8	1393.3
160°	1412.5	1406.1	1412.5	1418.9	1411.4
162.5°	1429.6	1423.2	1428.5	1436.0	1426.4
165°	1444.5	1438.1	1441.3	1448.8	1441.3
167.5°	1456.3	1449.9	1453.1	1460.5	1450.9
170°	1465.9	1459.5	1461.6	1469.1	1459.5
172.5°	1472.3	1465.9	1468.0	1475.5	1465.9
175°	1477.6	1470.1	1472.3	1479.7	1469.1
177.5°	1479.7	1472.3	1473.3	1480.8	1471.2
180°	1474.4	1474.4	1474.4	1474.4	1474.4

(END OF REPORT)