

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: P1008567

Luminaire Tested: S122DIP-B1005D1080UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008567
REPORT IS A COMBINATION OF REPORTS P983556 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D1080UB35-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

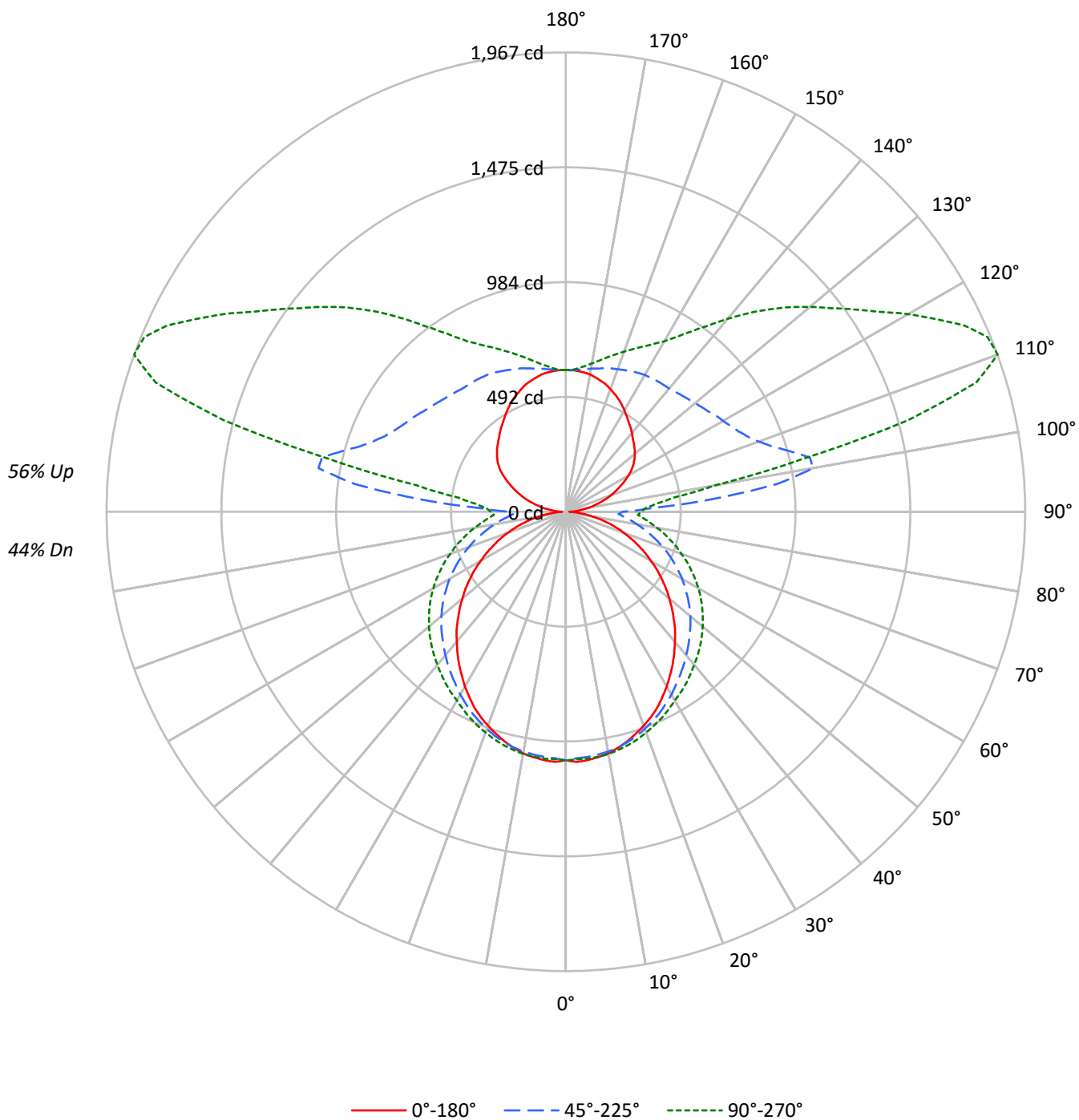
Lumens per Lamp: N/A
Luminaire Lumens: 8291.9 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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: P1008567

CATALOG NUMBER: S122DIP-B1005D1080UB35-4F0-XX-W2A-D4

Luminous Intensity Polar Plot



TEST NUMBER: P1008567

CATALOG NUMBER: S122DIP-B1005D1080UB35-4F0-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	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50
1	95	90	86	82	87	82	79	75	68	65	63	55	53	51	42	41	40
2	86	78	71	66	78	71	66	61	59	55	51	47	44	41	36	34	32
3	78	68	60	54	71	62	56	50	51	46	42	41	38	34	32	29	27
4	71	60	52	45	65	55	48	42	45	40	36	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	35	30	33	28	25	25	22	20
6	60	48	39	33	54	44	36	31	36	30	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	27	22	19	21	18	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	14
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	18	14	12
10	44	32	25	20	41	30	23	19	25	20	16	20	16	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16847	16847	16847
5°	16924	16128	16037
10°	16809	15569	15342
15°	16572	14992	14631
20°	16273	14385	13954
25°	15978	13805	13340
30°	15564	13214	12733
35°	15146	12644	12286
40°	14704	12153	11844
45°	14283	11705	11458
50°	13832	11295	11076
55°	13358	10856	10688
60°	12778	10401	10279
65°	12172	9879	9810
70°	11489	9316	9305
75°	10612	8755	8828
80°	9237	8169	8334
85°	7840	7620	7908

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14283 cd/sqm

TEST NUMBER: P1008567

CATALOG NUMBER: S122DIP-B1005D1080UB35-4F0-XX-W2A-D4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.2
10°-20°	289.4	3.5
20°-30°	438.5	5.3
30°-40°	533.9	6.4
40°-50°	574.5	6.9
50°-60°	557.9	6.7
60°-70°	487.2	5.9
70°-80°	375.0	4.5
80°-90°	255.0	3.1
90°-100°	419.0	5.1
100°-110°	957.4	11.5
110°-120°	956.9	11.5
120°-130°	764.7	9.2
130°-140°	596.7	7.2
140°-150°	439.3	5.3
150°-160°	306.5	3.7
160°-170°	180.5	2.2
170°-180°	58.7	0.7
0°-30°	828.7	10.0
0°-40°	1362.6	16.4
0°-60°	2495.0	30.1
0°-90°	3612.2	43.6
90°-120°	2333.4	28.1
90°-150°	4134.1	49.9
90°-180°	4680.0	56.4
0°-180°	8291.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1067	1063	1054	1063	1061	101
15°	1018	1021	1021	1035	1034	287
25°	926	936	950	969	973	426
35°	798	824	853	887	898	498
45°	654	696	750	798	813	505
55°	501	557	637	693	713	448
65°	342	418	509	572	592	340
75°	190	276	375	441	461	201
85°	56	151	250	315	336	59
90°	17	121	243	303	322	13
95°	53	185	634	409	387	52
105°	150	267	997	1731	1518	160
115°	257	340	815	1631	1885	254
125°	353	417	747	1303	1511	314
135°	412	491	704	1065	1224	319
145°	469	539	683	858	945	294
155°	533	575	663	750	780	245
165°	581	598	635	674	684	164
175°	605	606	611	618	617	57
180°	606	606	606	606	606	

TEST NUMBER: P1008567

CATALOG NUMBER: S122DIP-B1005D1080UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.3	1064.3	1064.3	1064.3	1064.3
2.5°	1072.0	1067.4	1056.6	1064.3	1061.2
5°	1067.4	1062.8	1053.5	1062.8	1061.2
7.5°	1059.7	1056.6	1048.9	1059.7	1058.1
10°	1050.4	1047.3	1042.7	1055.0	1053.5
12.5°	1035.0	1036.5	1033.5	1045.8	1044.2
15°	1018.0	1021.1	1021.1	1035.0	1033.5
17.5°	996.4	1002.6	1007.2	1021.1	1021.1
20°	974.8	982.6	988.7	1005.7	1005.7
22.5°	951.7	961.0	970.2	987.2	990.3
25°	925.5	936.3	950.2	968.7	973.3
27.5°	894.6	911.6	927.0	950.2	953.2
30°	863.8	883.8	903.9	928.6	933.2
32.5°	829.8	853.0	877.7	907.0	916.2
35°	797.5	823.7	853.0	886.9	897.7
37.5°	762.0	791.3	828.3	865.3	876.1
40°	726.5	760.4	802.1	842.2	856.1
42.5°	692.6	726.5	775.9	820.6	834.5
45°	654.0	695.7	749.6	797.5	812.9
47.5°	617.0	661.7	723.4	772.8	789.7
50°	578.4	626.2	695.7	748.1	765.1
52.5°	541.4	592.3	666.3	720.3	738.8
55°	501.3	556.8	637.0	692.6	712.6
57.5°	462.7	524.4	604.6	664.8	684.9
60°	421.1	487.4	575.3	634.0	655.5
62.5°	384.1	453.5	541.4	604.6	624.7
65°	342.4	418.0	509.0	572.3	592.3
67.5°	305.4	384.1	476.6	539.9	561.5
70°	265.3	345.5	441.1	507.5	526.0
72.5°	228.3	311.6	408.8	473.5	496.7
75°	189.7	276.1	374.8	441.1	461.2
77.5°	152.7	242.2	342.4	408.8	430.3
80°	115.7	209.8	310.0	374.8	396.4
82.5°	84.8	177.4	279.2	344.0	364.0
85°	55.5	151.2	249.9	314.7	336.3
87.5°	33.9	126.5	225.2	288.4	308.5
90°	16.6	120.6	243.2	303.2	322.3
92.5°	31.4	151.0	369.3	332.6	339.5
95°	53.1	185.1	634.4	408.6	387.4
97.5°	71.4	209.4	911.6	570.0	464.9
100°	100.6	230.0	1075.3	901.0	645.7
102.5°	125.9	249.1	1070.3	1364.9	1029.7
105°	149.9	267.0	996.6	1730.8	1517.6
107.5°	177.9	284.9	927.5	1855.6	1842.2
110°	204.4	303.4	878.6	1821.1	1967.4

TEST NUMBER: P1008567

CATALOG NUMBER: S122DIP-B1005D1080UB35-4F0-XX-W2A-D4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	230.1	322.3	842.2	1735.0	1954.3
115°	256.9	339.7	815.4	1630.6	1884.8
117.5°	283.3	358.6	795.3	1531.8	1786.2
120°	308.9	376.9	777.9	1440.8	1692.7
122.5°	333.4	397.4	763.9	1368.8	1592.5
125°	352.9	417.0	747.3	1302.6	1510.6
127.5°	370.4	437.0	734.6	1243.0	1431.7
130°	385.5	456.2	723.0	1184.4	1364.6
132.5°	399.5	474.8	712.6	1124.1	1296.7
135°	411.9	491.2	703.7	1065.0	1224.1
137.5°	424.7	505.2	696.0	1005.2	1152.4
140°	439.9	516.5	688.7	951.2	1078.2
142.5°	455.0	527.0	685.6	900.5	1005.6
145°	468.7	538.6	683.2	857.5	945.1
147.5°	485.0	548.0	679.7	820.0	888.8
150°	501.3	557.3	676.2	792.8	843.0
152.5°	517.7	566.6	670.4	771.2	809.1
155°	532.8	575.4	663.4	750.3	780.0
157.5°	545.6	582.4	656.4	730.4	754.3
160°	558.5	589.4	649.4	710.6	729.9
162.5°	571.3	594.6	643.6	692.0	706.5
165°	580.6	598.1	635.4	673.9	684.4
167.5°	588.8	601.6	628.4	657.6	663.4
170°	596.9	603.4	622.6	642.4	644.7
172.5°	601.6	605.1	615.6	629.0	629.6
175°	605.1	605.7	610.9	618.5	616.8
177.5°	607.4	606.3	606.3	610.9	607.4
180°	606.3	606.3	606.3	606.3	606.3

(END OF REPORT)