

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: P1008608

Luminaire Tested: S122DIP-B1005D330UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008608
REPORT IS A COMBINATION OF REPORTS P983615 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D330UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

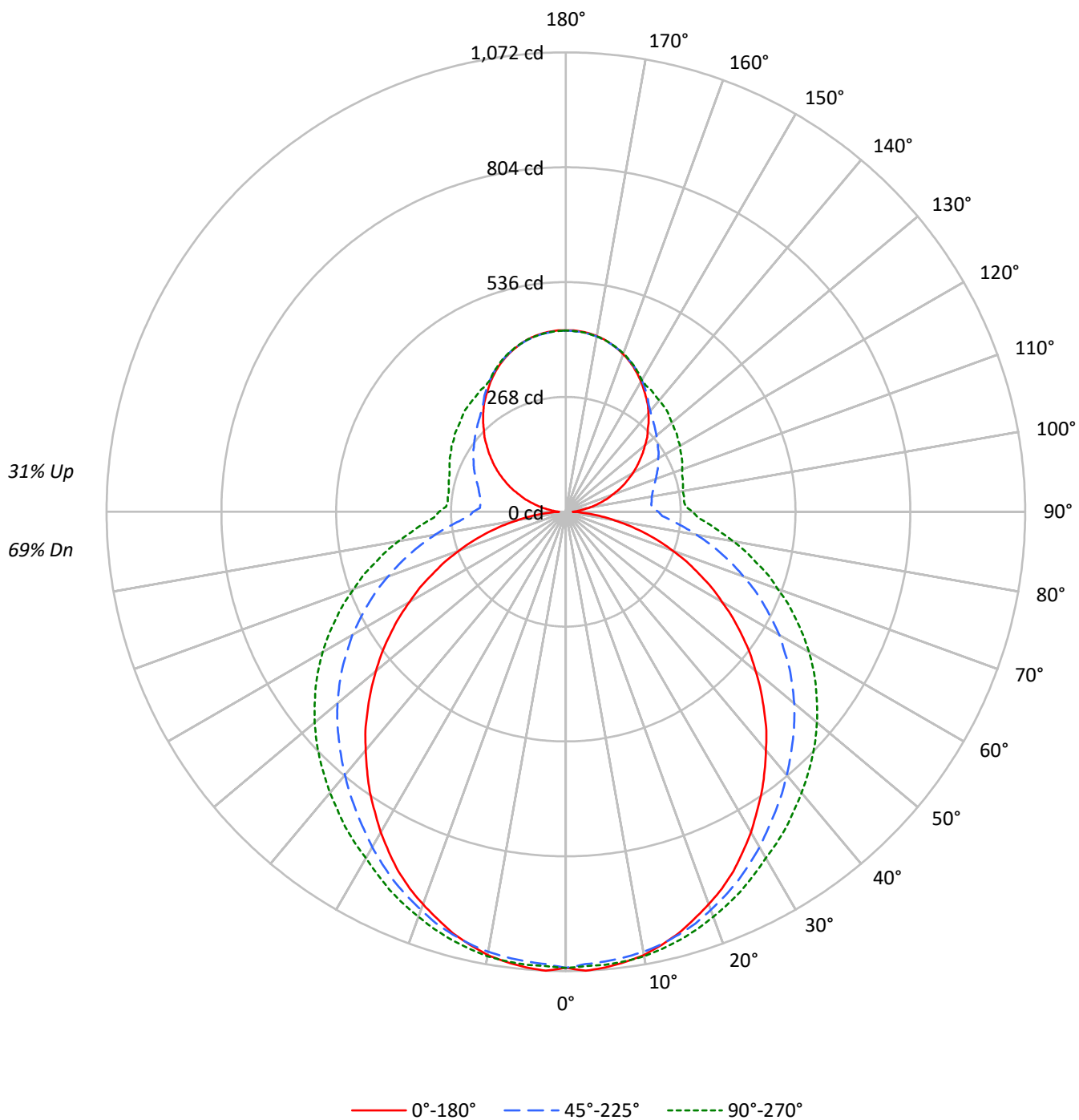
Lumens per Lamp: N/A
Luminaire Lumens: 5245.0 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73
1	100	95	90	85	94	89	85	81	79	76	73	70	68	65	62	60	58
2	90	81	74	68	85	77	70	65	68	63	59	60	56	53	53	50	47
3	82	71	63	56	77	67	59	53	60	54	49	53	48	44	46	43	39
4	75	62	54	47	70	59	51	45	53	46	41	47	41	37	41	37	33
5	68	55	46	40	64	53	44	38	47	40	35	42	36	32	37	32	29
6	63	50	41	34	59	47	39	33	42	35	30	38	32	28	33	29	25
7	58	45	36	30	55	43	35	29	38	31	27	34	29	24	30	26	22
8	54	41	32	27	51	39	31	26	35	28	24	31	26	22	28	23	20
9	50	37	29	24	47	35	28	23	32	26	21	29	23	19	26	21	18
10	47	34	26	21	44	33	25	21	29	23	19	27	21	18	24	19	16

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.9	1.9
10°-20°	289.4	5.5
20°-30°	438.5	8.4
30°-40°	533.9	10.2
40°-50°	574.5	11.0
50°-60°	557.9	10.6
60°-70°	487.2	9.3
70°-80°	375.0	7.1
80°-90°	252.4	4.8
90°-100°	199.4	3.8
100°-110°	209.7	4.0
110°-120°	225.9	4.3
120°-130°	233.8	4.5
130°-140°	229.7	4.4
140°-150°	209.4	4.0
150°-160°	172.9	3.3
160°-170°	114.7	2.2
170°-180°	40.1	0.8
0°-30°	828.7	15.8
0°-40°	1362.6	26.0
0°-60°	2495.0	47.6
0°-90°	3609.5	68.8
90°-120°	635.1	12.1
90°-150°	1307.9	24.9
90°-180°	1636.0	31.2
0°-180°	5245.0	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°	16	110	216	277	296	12
95°	31	107	200	259	277	30
105°	84	130	211	266	283	90
115°	149	168	237	283	299	147
125°	211	214	262	303	316	189
135°	270	274	290	322	334	209
145°	326	329	331	341	347	204
155°	373	374	375	377	376	172
165°	406	406	406	408	406	115
175°	422	421	421	423	421	40
180°	423	423	423	423	423	

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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°	15.8	109.5	216.1	277.1	295.9
92.5°	21.8	106.3	200.8	261.3	279.8
95°	30.9	106.9	200.2	258.8	276.6
97.5°	41.9	111.4	202.3	259.4	277.9
100°	56.1	116.1	203.5	260.6	277.2
102.5°	69.6	122.7	207.3	263.3	279.8
105°	84.5	130.2	211.2	265.9	282.9
107.5°	100.9	139.3	216.5	269.3	284.5
110°	115.1	148.0	223.6	273.0	288.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	132.2	159.0	229.6	277.9	294.1
115°	149.0	168.0	236.7	282.7	298.6
117.5°	164.2	179.4	242.5	287.6	301.9
120°	181.0	190.0	248.9	292.1	308.0
122.5°	196.3	201.5	256.7	297.3	310.5
125°	210.9	214.1	262.3	303.0	316.5
127.5°	226.6	228.9	269.2	306.4	319.1
130°	241.2	244.3	276.0	312.3	323.2
132.5°	257.7	259.6	283.2	316.9	328.1
135°	270.3	274.3	290.5	322.5	333.7
137.5°	286.0	289.3	297.8	326.7	336.1
140°	300.0	301.7	306.6	331.3	339.0
142.5°	314.2	316.0	317.0	335.9	342.2
145°	326.3	328.8	331.0	340.6	346.9
147.5°	338.4	341.7	343.1	345.3	348.6
150°	350.9	353.1	354.5	355.6	354.5
152.5°	362.0	364.2	365.9	367.4	365.9
155°	373.1	374.1	375.2	377.0	375.9
157.5°	382.7	383.4	384.1	386.6	384.9
160°	391.3	392.0	392.4	394.5	393.1
162.5°	399.1	399.1	399.5	402.0	400.2
165°	405.9	405.6	405.6	408.1	406.3
167.5°	412.0	410.9	410.9	413.4	411.6
170°	416.6	415.6	415.2	417.7	415.6
172.5°	419.8	418.8	418.4	420.9	418.8
175°	422.3	421.3	420.6	423.1	420.9
177.5°	423.8	422.7	422.0	424.1	422.0
180°	423.1	423.1	423.1	423.1	423.1

(END OF REPORT)