

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: P1008609

Luminaire Tested: S122DIP-B1005D330UB35-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008609
REPORT IS A COMBINATION OF REPORTS P983616 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-D4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

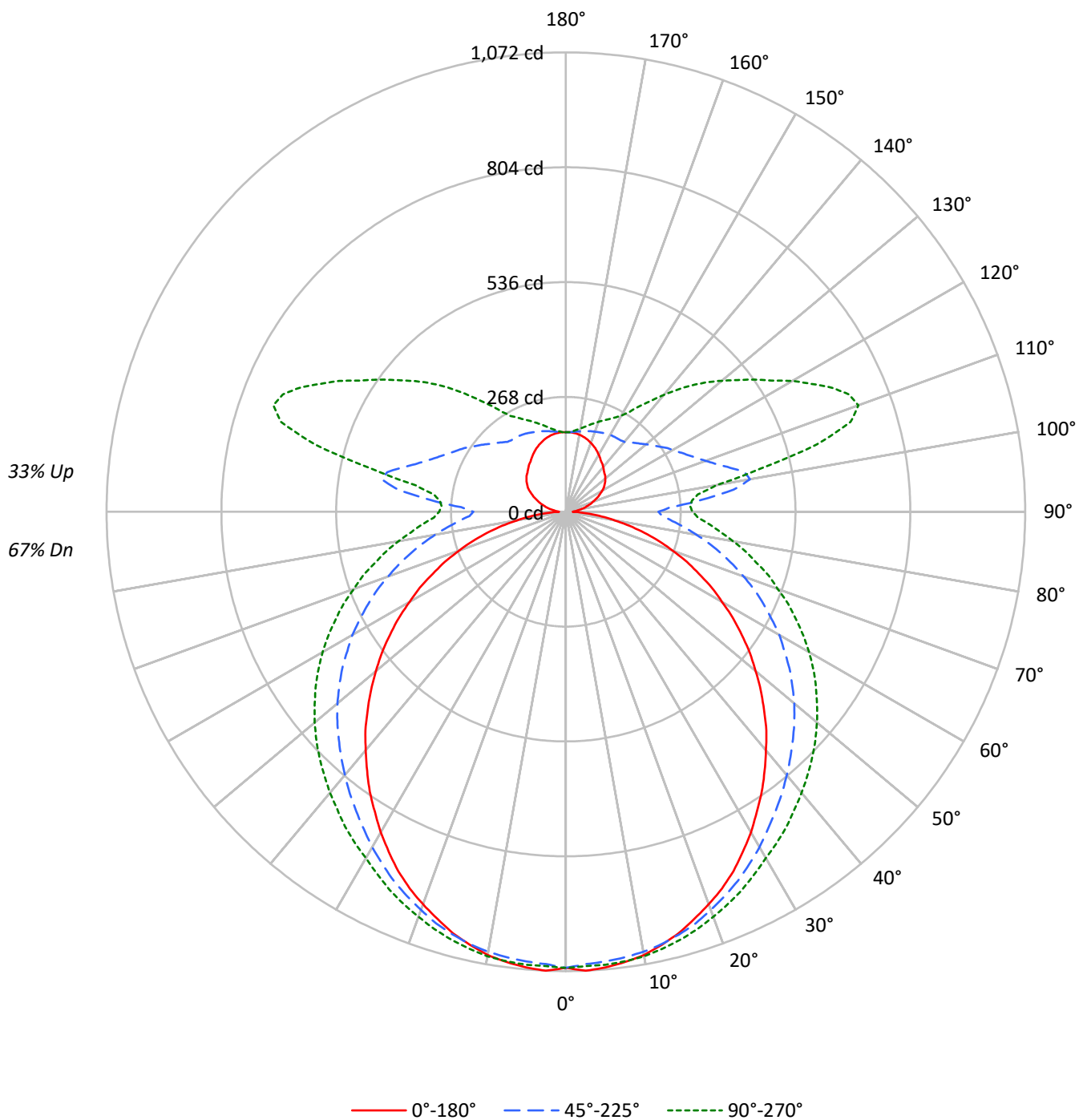
Lumens per Lamp: N/A
Luminaire Lumens: 5356.5 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72
1	100	94	90	85	94	89	85	81	79	75	72	69	67	64	61	59	57
2	90	81	74	68	84	77	70	65	68	63	58	60	56	52	52	49	46
3	82	71	62	56	76	67	59	53	59	53	48	52	47	43	46	42	39
4	74	62	53	47	70	59	51	45	52	46	41	46	41	37	40	36	33
5	68	55	46	40	64	52	44	38	47	40	35	41	36	31	36	32	28
6	63	50	41	34	59	47	39	33	42	35	30	37	32	27	33	28	25
7	58	45	36	30	54	42	34	29	38	31	26	34	28	24	30	25	22
8	54	41	32	27	50	38	31	25	35	28	23	31	25	21	27	23	19
9	50	37	29	24	47	35	28	23	32	25	21	28	23	19	25	21	17
10	47	34	26	21	44	32	25	20	29	23	19	26	21	17	23	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	5.4
20°-30°	438.5	8.2
30°-40°	533.9	10.0
40°-50°	574.5	10.7
50°-60°	557.9	10.4
60°-70°	487.2	9.1
70°-80°	375.0	7.0
80°-90°	252.3	4.7
90°-100°	248.5	4.6
100°-110°	380.9	7.1
110°-120°	351.0	6.6
120°-130°	266.5	5.0
130°-140°	196.3	3.7
140°-150°	136.8	2.6
150°-160°	93.9	1.8
160°-170°	55.3	1.0
170°-180°	18.0	0.3
0°-30°	828.7	15.5
0°-40°	1362.6	25.4
0°-60°	2495.0	46.6
0°-90°	3609.5	67.4
90°-120°	980.4	18.3
90°-150°	1579.9	29.5
90°-180°	1747.0	32.6
0°-180°	5356.5	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°	25	116	317	289	295	23
105°	51	118	397	659	606	55
115°	83	120	314	596	685	82
125°	110	130	265	464	538	99
135°	127	151	227	360	418	99
145°	144	165	209	269	301	90
155°	163	176	203	230	239	75
165°	178	183	195	206	210	50
175°	185	185	187	189	189	18
180°	186	186	186	186	186	

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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	109.8	215.7	276.9	295.6
92.5°	19.3	112.6	244.7	275.2	290.2
95°	24.8	115.5	317.3	288.8	295.2
97.5°	29.4	117.6	394.7	329.7	310.4
100°	38.3	117.5	436.2	422.5	356.1
102.5°	45.0	118.0	427.2	556.0	465.1
105°	51.3	118.1	397.2	659.4	605.9
107.5°	59.8	118.2	368.6	689.1	696.8
110°	66.9	118.6	347.1	670.0	726.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	74.7	120.0	328.5	636.2	715.0
115°	83.0	120.0	313.8	595.6	685.2
117.5°	89.9	121.6	300.3	557.8	646.4
120°	97.8	122.9	288.5	521.4	610.4
122.5°	105.3	126.0	277.8	491.9	570.0
125°	110.2	129.8	265.2	464.1	537.5
127.5°	115.6	134.8	254.9	437.4	504.7
130°	120.2	140.7	244.9	412.0	475.6
132.5°	124.5	146.4	235.3	386.0	447.4
135°	127.2	151.4	227.3	360.3	417.6
137.5°	131.1	155.8	219.6	334.6	387.1
140°	135.7	158.2	213.0	310.6	355.8
142.5°	140.4	161.4	209.9	288.6	326.1
145°	143.5	165.0	209.2	269.0	301.2
147.5°	148.5	167.8	208.1	252.1	276.5
150°	153.5	170.6	207.1	242.8	258.1
152.5°	158.5	173.5	205.3	236.2	247.8
155°	163.1	176.2	203.1	229.8	238.8
157.5°	167.1	178.3	201.0	223.7	231.0
160°	171.0	180.4	198.8	217.6	223.5
162.5°	174.9	182.0	197.1	211.9	216.3
165°	177.8	183.1	194.6	206.4	209.6
167.5°	180.3	184.2	192.4	201.4	203.1
170°	182.8	184.8	190.6	196.8	197.4
172.5°	184.2	185.2	188.5	192.6	192.8
175°	185.3	185.4	187.1	189.4	188.9
177.5°	186.0	185.6	185.6	187.1	186.0
180°	185.6	185.6	185.6	185.6	185.6

(END OF REPORT)