

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: P1008166

Luminaire Tested: S122DIP-B675D330UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008166
REPORT IS A COMBINATION OF REPORTS P984494 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D330UB2750-4F0-XX-W2A-D_3500K
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

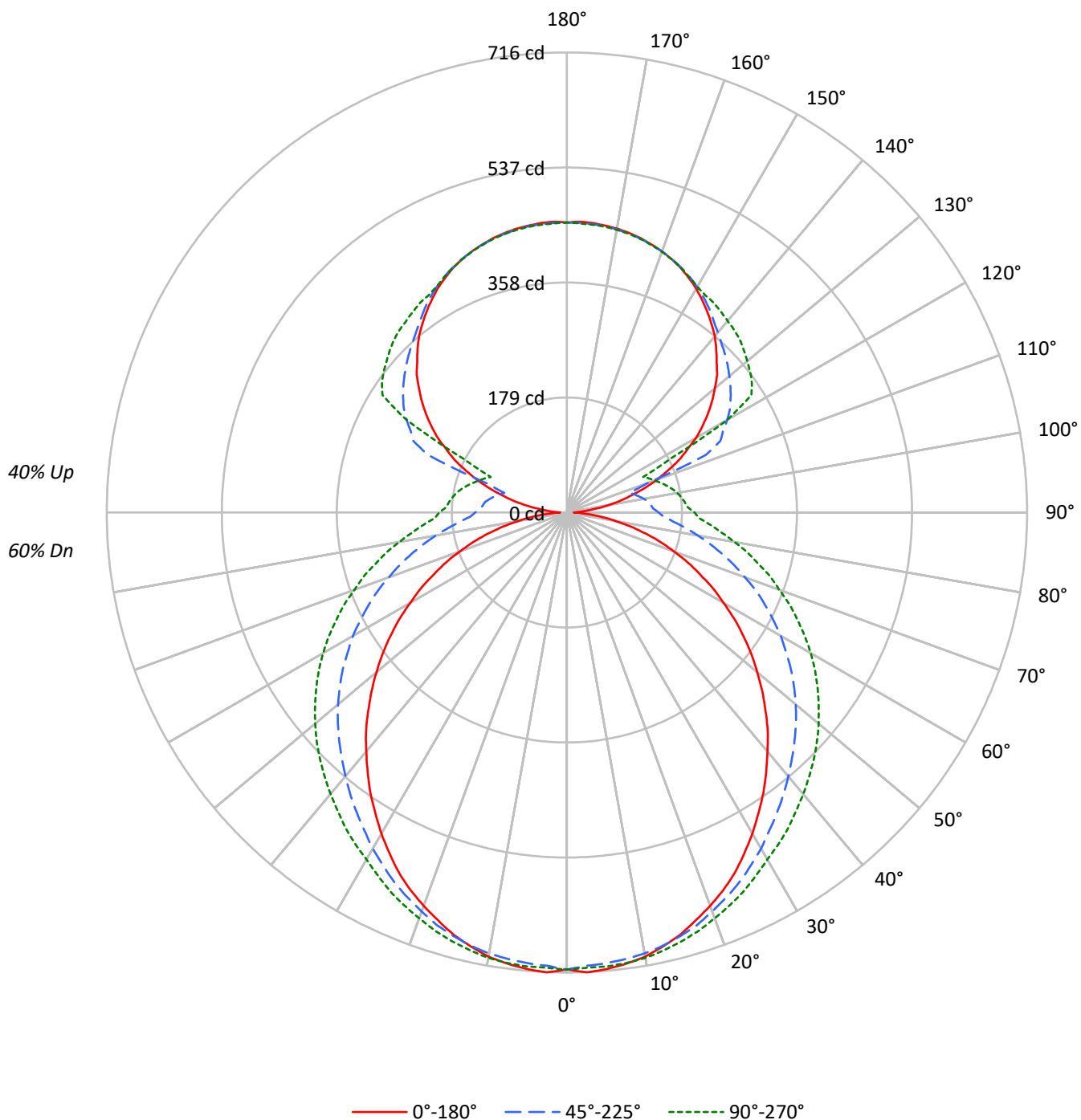
Lumens per Lamp: N/A
Luminaire Lumens: 4038.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 45.2
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	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65
1	98	93	88	84	91	87	83	79	75	72	69	65	62	60	55	53	51
2	89	80	73	67	82	75	69	63	65	60	56	56	52	49	47	44	42
3	80	70	62	55	75	65	58	52	57	51	46	49	44	40	41	38	35
4	73	62	53	46	68	58	50	44	50	44	39	43	38	34	36	33	30
5	67	55	46	39	62	51	43	37	45	38	33	38	33	29	33	29	25
6	62	49	40	34	57	46	38	32	40	34	29	35	29	26	30	25	22
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	27	23	20
8	53	40	32	26	49	38	30	25	33	27	22	29	24	20	25	21	17
9	49	36	29	23	46	34	27	22	30	24	20	26	21	18	23	19	16
10	46	33	26	21	43	32	25	20	28	22	18	24	20	16	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11259	11259	11259
5°	11309	10779	10717
10°	11234	10404	10254
15°	11076	10019	9778
20°	10876	9614	9325
25°	10678	9225	8916
30°	10402	8831	8510
35°	10121	8451	8212
40°	9826	8121	7915
45°	9546	7823	7658
50°	9245	7548	7402
55°	8926	7255	7142
60°	8539	6952	6870
65°	8134	6603	6555
70°	7678	6226	6218
75°	7093	5851	5899
80°	6171	5460	5569
85°	5241	5092	5284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9546 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.7
10°-20°	193.4	4.8
20°-30°	293.0	7.3
30°-40°	356.8	8.8
40°-50°	383.9	9.5
50°-60°	372.8	9.2
60°-70°	325.6	8.1
70°-80°	250.6	6.2
80°-90°	168.6	4.2
90°-100°	130.7	3.2
100°-110°	140.1	3.5
110°-120°	203.0	5.0
120°-130°	275.2	6.8
130°-140°	272.3	6.7
140°-150°	243.1	6.0
150°-160°	193.7	4.8
160°-170°	124.8	3.1
170°-180°	43.0	1.1
0°-30°	553.8	13.7
0°-40°	910.7	22.6
0°-60°	1667.4	41.3
0°-90°	2412.2	59.7
90°-120°	473.7	11.7
90°-150°	1264.3	31.3
90°-180°	1626.0	40.3
0°-180°	4038.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	711	711	711	711	711	
5°	713	710	704	710	709	68
15°	680	682	682	692	691	192
25°	618	626	635	647	650	284
35°	533	550	570	593	600	333
45°	437	465	501	533	543	337
55°	335	372	426	463	476	300
65°	229	279	340	382	396	227
75°	127	184	250	295	308	134
85°	37	101	167	210	225	39
90°	11	74	143	186	198	8
95°	29	67	131	172	184	32
105°	104	144	109	148	161	112
115°	192	209	263	143	131	189
125°	268	272	311	341	351	239
135°	330	335	348	373	380	255
145°	381	381	386	395	398	239
155°	420	417	421	423	420	193
165°	442	440	441	444	441	125
175°	452	450	451	453	450	43
180°	451	451	451	451	451	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	711.3	711.3	711.3	711.3	711.3
2.5°	716.4	713.3	706.1	711.3	709.2
5°	713.3	710.3	704.1	710.3	709.2
7.5°	708.2	706.1	701.0	708.2	707.2
10°	702.0	699.9	696.8	705.1	704.1
12.5°	691.7	692.7	690.7	698.9	697.9
15°	680.4	682.4	682.4	691.7	690.7
17.5°	665.9	670.0	673.1	682.4	682.4
20°	651.5	656.6	660.8	672.1	672.1
22.5°	636.0	642.2	648.4	659.7	661.8
25°	618.5	625.7	635.0	647.4	650.5
27.5°	597.9	609.2	619.5	635.0	637.1
30°	577.3	590.7	604.1	620.6	623.7
32.5°	554.6	570.1	586.5	606.1	612.3
35°	532.9	550.5	570.1	592.7	600.0
37.5°	509.2	528.8	553.6	578.3	585.5
40°	485.5	508.2	536.0	562.8	572.1
42.5°	462.8	485.5	518.5	548.4	557.7
45°	437.1	464.9	501.0	532.9	543.3
47.5°	412.3	442.2	483.5	516.5	527.8
50°	386.6	418.5	464.9	500.0	511.3
52.5°	361.8	395.8	445.3	481.4	493.8
55°	335.0	372.1	425.7	462.8	476.2
57.5°	309.3	350.5	404.1	444.3	457.7
60°	281.4	325.7	384.5	423.7	438.1
62.5°	256.7	303.1	361.8	404.1	417.5
65°	228.8	279.4	340.2	382.4	395.8
67.5°	204.1	256.7	318.5	360.8	375.2
70°	177.3	230.9	294.8	339.1	351.5
72.5°	152.6	208.2	273.2	316.5	331.9
75°	126.8	184.5	250.5	294.8	308.2
77.5°	102.1	161.8	228.8	273.2	287.6
80°	77.3	140.2	207.2	250.5	264.9
82.5°	56.7	118.5	186.6	229.9	243.3
85°	37.1	101.0	167.0	210.3	224.7
87.5°	22.7	84.5	150.5	192.8	206.2
90°	10.6	74.0	142.6	185.5	198.5
92.5°	17.5	70.8	134.6	175.5	188.2
95°	29.4	67.2	131.2	172.1	184.1
97.5°	45.4	62.9	128.0	167.1	179.8
100°	65.0	58.5	121.7	162.4	174.5
102.5°	85.6	118.9	115.2	155.9	168.1
105°	104.5	144.1	108.6	148.2	160.9
107.5°	127.7	160.5	102.0	140.7	153.3
110°	148.8	176.2	132.5	132.7	145.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	169.7	192.1	233.9	126.1	138.5
115°	191.9	208.8	263.4	143.1	130.9
117.5°	210.2	224.9	273.7	258.0	182.8
120°	231.7	240.7	287.8	320.6	287.9
122.5°	250.0	256.2	301.0	330.7	340.3
125°	267.6	271.9	311.0	341.2	351.4
127.5°	284.6	288.1	320.9	349.8	359.5
130°	300.6	304.7	330.0	358.3	366.3
132.5°	316.9	320.1	339.2	365.8	373.7
135°	329.6	334.8	348.0	373.0	380.5
137.5°	343.9	347.8	356.3	379.2	385.4
140°	358.0	359.6	365.3	384.7	389.2
142.5°	369.7	371.0	375.3	390.3	393.7
145°	381.1	380.8	386.4	394.8	398.3
147.5°	391.9	390.9	396.5	399.1	400.9
150°	402.4	400.1	405.3	407.3	405.6
152.5°	411.2	408.6	413.5	415.4	413.1
155°	419.7	416.7	420.7	422.6	420.0
157.5°	426.5	423.9	426.9	429.1	426.5
160°	432.4	430.5	432.4	434.4	432.1
162.5°	437.6	435.7	437.3	439.6	436.7
165°	442.2	440.2	441.2	443.5	441.2
167.5°	445.8	443.8	444.8	447.1	444.2
170°	448.7	446.8	447.4	449.7	446.8
172.5°	450.7	448.7	449.4	451.7	448.7
175°	452.3	450.0	450.7	453.0	449.7
177.5°	453.0	450.7	451.0	453.3	450.4
180°	451.4	451.4	451.4	451.4	451.4

(END OF REPORT)