

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: P1008612

Luminaire Tested: S122DIP-B1005D330UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008612
REPORT IS A COMBINATION OF REPORTS P983619 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-F4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

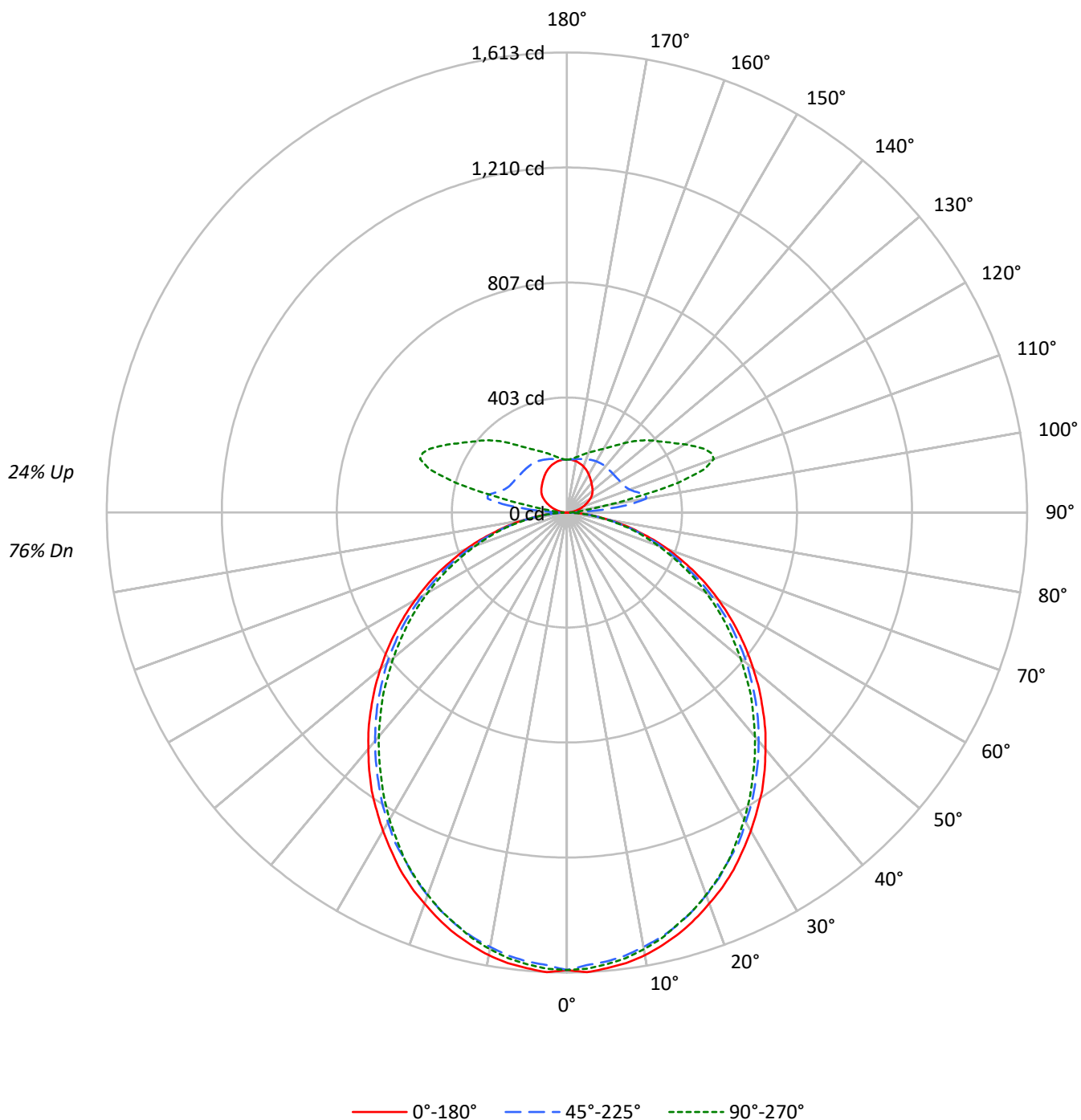
Lumens per Lamp: N/A
Luminaire Lumens: 5376.5 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80
1	104	99	95	91	98	95	91	88	86	83	81	78	76	74	71	69	68
2	94	87	80	75	90	83	77	72	75	71	67	69	65	62	62	59	57
3	86	76	69	62	82	73	66	60	67	61	56	61	56	52	55	52	49
4	79	68	59	53	75	65	57	51	59	53	48	54	49	45	49	45	42
5	73	60	52	46	69	58	50	44	53	47	42	49	43	39	45	40	37
6	67	54	46	40	64	52	44	39	48	41	36	44	39	34	40	36	32
7	62	49	41	35	59	47	40	34	44	37	32	40	35	30	37	32	29
8	58	45	37	31	55	43	36	30	40	33	29	37	31	27	34	29	26
9	54	41	33	28	51	40	32	27	37	30	26	34	29	25	31	27	23
10	50	38	30	25	48	37	29	25	34	28	24	31	26	22	29	25	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25392	25392	25392
5°	25433	24202	24031
10°	25225	23099	22641
15°	24856	21987	21179
20°	24357	20779	19795
25°	23859	19517	18413
30°	23232	18330	16963
35°	22644	17079	15537
40°	21913	15843	14190
45°	21189	14619	12870
50°	20396	13372	11499
55°	19564	12039	10202
60°	18629	10597	8852
65°	17601	9129	7433
70°	16296	7525	6002
75°	14494	5800	4636
80°	12311	3942	2983
85°	8927	1836	1270

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 21189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	2.8
10°-20°	424.8	7.9
20°-30°	624.2	11.6
30°-40°	725.0	13.5
40°-50°	724.1	13.5
50°-60°	631.4	11.7
60°-70°	466.7	8.7
70°-80°	264.1	4.9
80°-90°	70.9	1.3
90°-100°	75.3	1.4
100°-110°	254.4	4.7
110°-120°	267.4	5.0
120°-130°	219.9	4.1
130°-140°	176.7	3.3
140°-150°	133.5	2.5
150°-160°	93.9	1.7
160°-170°	55.3	1.0
170°-180°	18.0	0.3
0°-30°	1200.0	22.3
0°-40°	1925.0	35.8
0°-60°	3280.5	61.0
0°-90°	4082.2	75.9
90°-120°	597.1	11.1
90°-150°	1127.2	21.0
90°-180°	1294.0	24.1
0°-180°	5376.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1604	1604	1604	1604	1604	
5°	1604	1598	1581	1593	1590	152
15°	1527	1518	1498	1504	1496	430
25°	1382	1370	1343	1346	1343	636
35°	1192	1177	1152	1143	1135	745
45°	970	959	936	919	913	749
55°	734	725	706	688	680	656
65°	495	486	470	456	449	490
75°	259	256	248	239	242	277
85°	63	62	60	56	54	70
90°	0	5	12	12	12	5
95°	12	31	140	53	41	13
105°	44	66	264	473	402	46
115°	77	97	221	457	529	76
125°	107	127	213	370	430	95
135°	126	150	210	311	356	97
145°	144	165	209	260	284	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°	1604.1	1604.1	1604.1	1604.1	1604.1
2.5°	1613.3	1605.6	1588.6	1604.1	1601.0
5°	1604.1	1597.9	1580.9	1593.3	1590.2
7.5°	1593.3	1584.0	1567.0	1579.4	1576.3
10°	1576.3	1565.5	1547.0	1559.3	1554.7
12.5°	1553.2	1543.9	1525.4	1533.1	1530.0
15°	1526.9	1517.7	1497.6	1503.8	1496.1
17.5°	1494.6	1485.3	1465.3	1473.0	1465.3
20°	1459.1	1449.8	1428.2	1432.9	1426.7
22.5°	1423.6	1409.7	1389.7	1389.7	1386.6
25°	1382.0	1369.6	1343.4	1346.5	1343.4
27.5°	1335.7	1324.9	1304.8	1300.2	1292.5
30°	1289.4	1277.1	1253.9	1249.3	1243.2
32.5°	1240.1	1230.8	1206.1	1196.9	1190.7
35°	1192.3	1176.8	1152.2	1142.9	1135.2
37.5°	1138.3	1124.4	1099.7	1088.9	1081.2
40°	1082.7	1070.4	1045.7	1031.8	1025.7
42.5°	1028.8	1016.4	991.7	976.3	967.1
45°	970.2	959.4	936.2	919.3	913.1
47.5°	913.1	902.3	877.6	860.6	851.4
50°	852.9	845.2	823.6	802.0	794.3
52.5°	794.3	783.5	763.5	746.5	735.7
55°	734.2	724.9	706.4	687.9	680.2
57.5°	674.0	666.3	646.3	627.7	621.6
60°	613.9	607.7	586.1	569.1	564.5
62.5°	555.3	544.5	529.0	513.6	507.4
65°	495.1	485.8	470.4	456.5	448.8
67.5°	433.4	425.7	411.8	401.0	394.8
70°	376.3	370.2	356.3	345.5	339.3
72.5°	317.7	311.6	303.8	293.1	288.4
75°	259.1	256.0	248.3	239.1	242.2
77.5°	206.7	200.5	197.4	192.8	188.2
80°	154.2	152.7	149.6	145.0	141.9
82.5°	104.9	104.9	103.3	97.2	97.2
85°	63.2	61.7	60.2	55.5	54.0
87.5°	27.8	24.7	21.6	17.0	15.4
90°	0.4	4.8	12.1	11.6	11.8
92.5°	5.4	17.0	55.0	25.4	21.8
95°	12.5	30.7	139.9	52.8	40.7
97.5°	18.6	40.5	228.1	106.0	68.2
100°	27.5	49.6	282.0	211.2	127.8
102.5°	35.7	57.8	283.8	357.0	249.2
105°	43.6	65.7	264.5	472.8	402.3
107.5°	52.1	73.5	246.7	514.8	505.5
110°	60.7	81.6	234.5	508.0	547.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	68.5	89.2	226.7	485.0	546.9
115°	76.8	96.9	221.3	456.8	529.4
117.5°	85.3	104.6	218.5	429.8	503.0
120°	93.2	112.1	216.0	405.8	477.7
122.5°	100.7	119.8	214.6	387.0	451.2
125°	107.1	126.7	212.8	370.0	429.5
127.5°	112.5	133.4	211.7	355.6	409.1
130°	117.1	139.2	211.0	341.0	392.3
132.5°	121.4	144.9	210.6	325.8	374.9
135°	125.7	149.9	210.3	311.0	355.9
137.5°	129.6	154.2	210.3	296.0	337.7
140°	134.2	158.2	209.9	282.8	318.8
142.5°	138.9	161.4	209.9	270.0	299.9
145°	143.5	165.0	209.2	259.7	284.2
147.5°	148.5	167.8	208.1	250.6	270.3
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)