

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: P1008638

Luminaire Tested: S122DIP-B1005D530UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1008638
REPORT IS A COMBINATION OF REPORTS P983645 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B1005D530UB27-4F0-XX-W2A-F1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

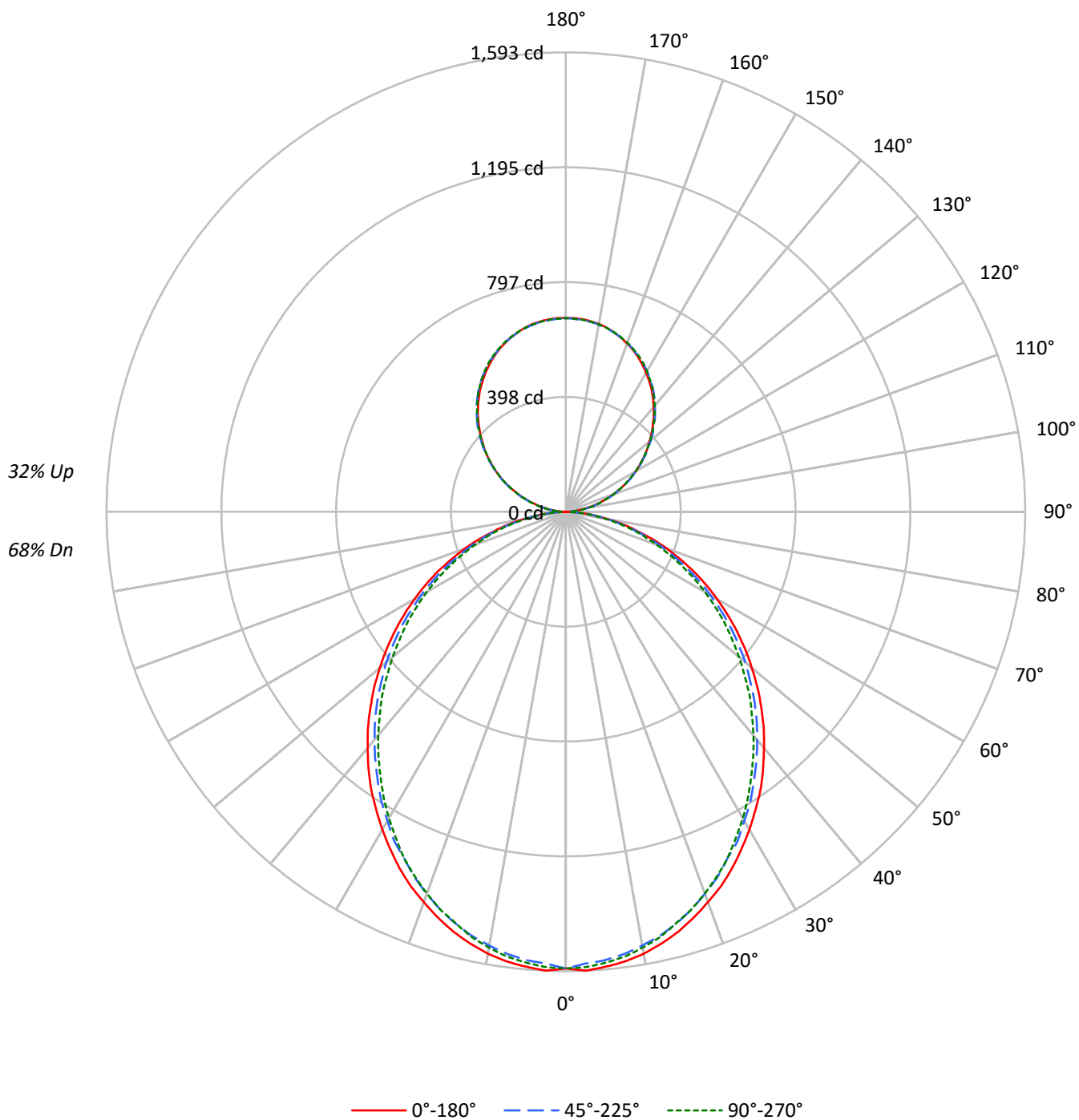
Lumens per Lamp: N/A
Luminaire Lumens: 5908.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	111	111	111	111	105	105	105	105	93	93	93	83	83	83	73	73	73	64	63	62	57
1	102	97	93	90	96	92	89	85	82	79	77	73	71	69	64	63	62	57	54	52	48
2	93	85	79	73	87	81	75	70	72	68	64	64	61	58	57	54	52	47	44	41	35
3	85	75	67	61	80	71	64	59	64	58	54	57	52	49	50	47	44	41	37	33	27
4	78	66	58	52	73	63	56	50	57	51	46	51	46	42	45	41	38	35	33	29	24
5	71	59	51	45	67	56	49	43	51	44	40	45	40	36	41	37	33	29	26	23	19
6	66	53	45	39	62	51	43	37	46	39	35	41	36	32	37	33	29	26	23	20	17
7	61	48	40	34	57	46	38	33	42	35	31	37	32	28	34	29	26	23	20	17	14
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	27	23	20	17	14	11
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	24	21	19	17	14	11
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	27	22	19	17	14	11	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25067	25067	25067
5°	25108	23894	23724
10°	24904	22805	22353
15°	24540	21709	20909
20°	24047	20514	19542
25°	23556	19269	18178
30°	22937	18098	16746
35°	22355	16861	15339
40°	21634	15642	14009
45°	20918	14433	12705
50°	20138	13201	11353
55°	19313	11886	10071
60°	18389	10461	8739
65°	17377	9013	7339
70°	16089	7428	5926
75°	14310	5728	4576
80°	12159	3892	2945
85°	8814	1811	1253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	2.5
10°-20°	419.4	7.1
20°-30°	616.3	10.4
30°-40°	715.8	12.1
40°-50°	714.9	12.1
50°-60°	623.3	10.6
60°-70°	460.8	7.8
70°-80°	260.7	4.4
80°-90°	70.7	1.2
90°-100°	41.5	0.7
100°-110°	132.0	2.2
110°-120°	225.9	3.8
120°-130°	297.1	5.0
130°-140°	333.5	5.6
140°-150°	327.1	5.5
150°-160°	274.3	4.6
160°-170°	182.0	3.1
170°-180°	63.6	1.1
0°-30°	1184.7	20.1
0°-40°	1900.5	32.2
0°-60°	3238.7	54.8
0°-90°	4030.9	68.2
90°-120°	399.5	6.8
90°-150°	1357.2	23.0
90°-180°	1877.0	31.8
0°-180°	5908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1584	1578	1561	1573	1570	150
15°	1508	1498	1479	1485	1477	425
25°	1364	1352	1326	1329	1326	628
35°	1177	1162	1138	1128	1121	735
45°	958	947	924	908	901	739
55°	725	716	697	679	672	648
65°	489	480	464	451	443	483
75°	256	253	245	236	239	273
85°	62	61	59	55	53	70
90°	1	7	20	19	19	6
95°	30	35	36	36	35	33
105°	122	124	125	126	126	129
115°	227	230	229	228	227	224
125°	330	335	333	331	331	295
135°	427	433	434	433	432	330
145°	518	522	525	526	524	324
155°	592	594	596	598	597	273
165°	644	644	644	648	645	182
175°	670	669	667	671	668	64
180°	671	671	671	671	671	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.6	1583.6	1583.6	1583.6	1583.6
2.5°	1592.8	1585.1	1568.4	1583.6	1580.6
5°	1583.6	1577.5	1560.8	1573.0	1569.9
7.5°	1573.0	1563.8	1547.1	1559.3	1556.2
10°	1556.2	1545.6	1527.3	1539.5	1534.9
12.5°	1533.4	1524.2	1506.0	1513.6	1510.5
15°	1507.5	1498.4	1478.6	1484.7	1477.0
17.5°	1475.5	1466.4	1446.6	1454.2	1446.6
20°	1440.5	1431.4	1410.0	1414.6	1408.5
22.5°	1405.5	1391.8	1372.0	1372.0	1368.9
25°	1364.4	1352.2	1326.3	1329.3	1326.3
27.5°	1318.7	1308.0	1288.2	1283.7	1276.0
30°	1273.0	1260.8	1238.0	1233.4	1227.3
32.5°	1224.3	1215.1	1190.8	1181.6	1175.5
35°	1177.1	1161.8	1137.5	1128.3	1120.7
37.5°	1123.8	1110.1	1085.7	1075.0	1067.4
40°	1068.9	1056.8	1032.4	1018.7	1012.6
42.5°	1015.7	1003.5	979.1	963.9	954.7
45°	957.8	947.1	924.3	907.5	901.4
47.5°	901.4	890.8	866.4	849.7	840.5
50°	842.1	834.4	813.1	791.8	784.2
52.5°	784.2	773.5	753.7	737.0	726.3
55°	724.8	715.7	697.4	679.1	671.5
57.5°	665.4	657.8	638.0	619.7	613.7
60°	606.0	600.0	578.6	561.9	557.3
62.5°	548.2	537.5	522.3	507.1	501.0
65°	488.8	479.7	464.4	450.7	443.1
67.5°	427.9	420.3	406.6	395.9	389.8
70°	371.5	365.5	351.7	341.1	335.0
72.5°	313.7	307.6	300.0	289.3	284.7
75°	255.8	252.8	245.2	236.0	239.1
77.5°	204.0	198.0	194.9	190.3	185.8
80°	152.3	150.7	147.7	143.1	140.1
82.5°	103.5	103.5	102.0	95.9	95.9
85°	62.4	60.9	59.4	54.8	53.3
87.5°	27.4	24.4	21.3	16.7	15.2
90°	0.6	7.4	19.8	18.7	19.3
92.5°	12.5	17.0	17.6	18.1	18.1
95°	29.5	35.1	36.3	36.3	35.1
97.5°	49.3	54.4	56.7	56.7	56.7
100°	72.0	76.5	78.2	78.2	77.6
102.5°	95.8	99.2	101.4	102.0	101.4
105°	121.8	123.5	124.6	125.8	125.8
107.5°	147.9	150.1	150.1	150.7	147.9
110°	172.8	176.2	176.2	176.2	174.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	200.0	203.4	202.8	201.1	200.0
115°	226.6	230.0	228.9	228.3	226.6
117.5°	253.3	257.8	255.0	253.3	251.6
120°	279.9	284.4	279.9	279.9	278.2
122.5°	304.3	309.9	307.1	305.4	304.3
125°	329.7	334.8	333.1	331.4	330.9
127.5°	354.7	360.9	358.6	356.4	354.7
130°	377.9	385.3	384.1	383.0	380.7
132.5°	404.0	409.6	410.2	407.4	405.7
135°	426.6	432.9	434.0	433.4	431.7
137.5°	451.6	456.7	457.8	457.2	455.0
140°	473.7	478.8	481.6	481.6	479.3
142.5°	496.3	501.4	503.1	503.7	501.4
145°	517.9	521.8	525.2	525.8	523.5
147.5°	537.1	542.2	544.5	545.6	543.3
150°	556.9	560.3	562.6	564.3	562.6
152.5°	574.5	577.9	580.7	583.0	580.7
155°	592.1	593.8	595.5	598.3	596.6
157.5°	607.4	608.5	609.6	613.6	610.8
160°	621.0	622.1	622.7	626.1	623.8
162.5°	633.4	633.4	634.0	638.0	635.1
165°	644.2	643.6	643.6	647.6	644.8
167.5°	653.8	652.1	652.1	656.1	653.3
170°	661.2	659.5	658.9	662.9	659.5
172.5°	666.3	664.6	664.0	668.0	664.6
175°	670.3	668.6	667.4	671.4	668.0
177.5°	672.5	670.8	669.7	673.1	669.7
180°	671.4	671.4	671.4	671.4	671.4

(END OF REPORT)