

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: P1009507

Luminaire Tested: S122DIP-B865D330UB40-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009507
REPORT IS A COMBINATION OF REPORTS P984826 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D330UB40-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

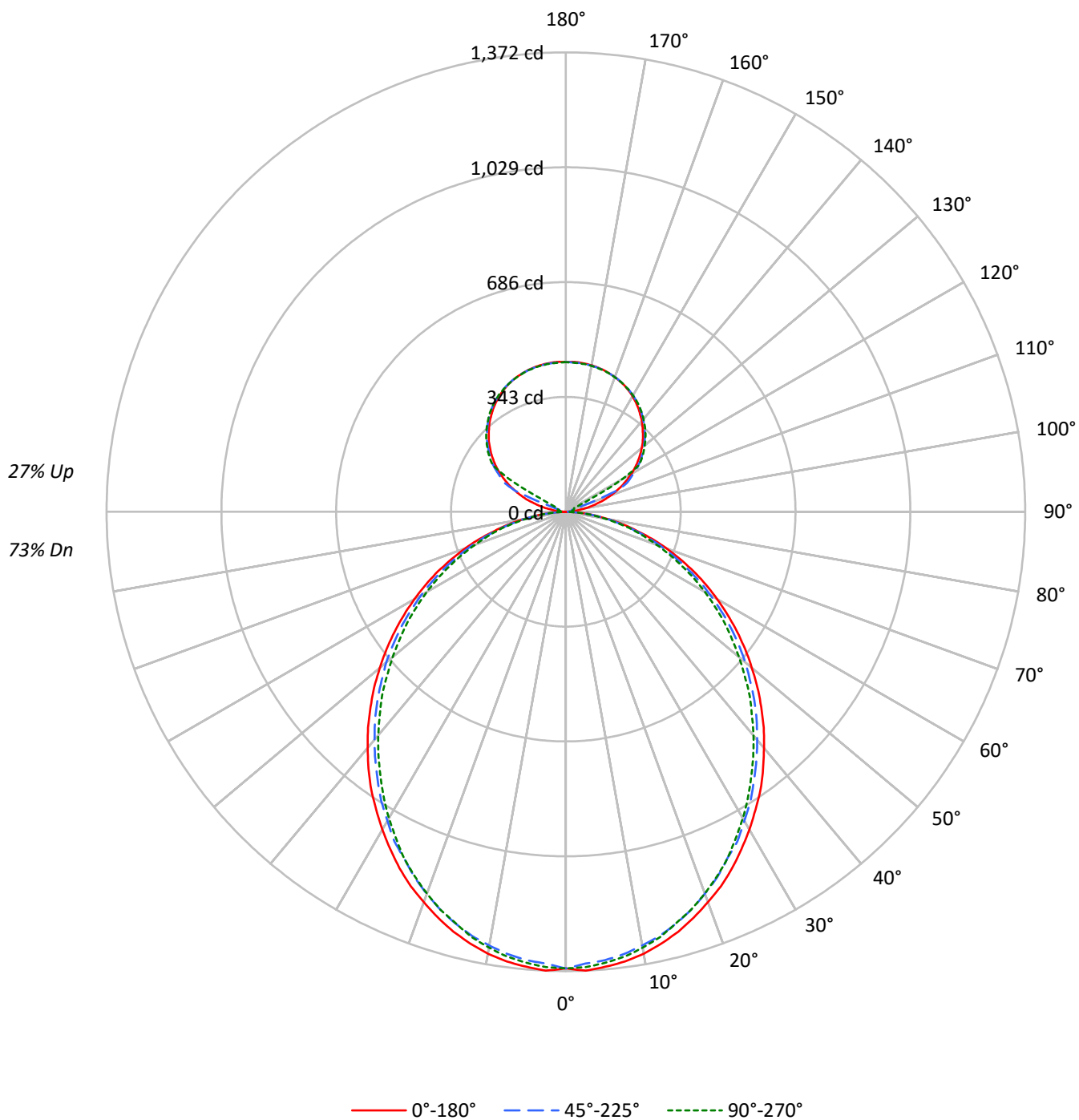
Lumens per Lamp: N/A
Luminaire Lumens: 4781.0 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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	107	107	107	107	96	96	96	86	86	86	77	77	77
1	103	98	94	91	97	93	90	87	84	82	79	76	74	72	68	66	65
2	94	86	80	74	89	82	76	71	74	69	65	67	63	60	60	57	55
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	53	50	47
4	78	67	59	53	74	64	56	51	58	52	47	53	48	44	47	44	40
5	72	60	51	45	68	57	49	44	52	46	41	47	42	38	43	39	35
6	66	54	45	39	63	52	44	38	47	41	36	43	37	33	39	34	31
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28
8	57	44	36	31	54	43	35	30	39	33	28	36	30	26	33	28	25
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22
10	50	38	30	25	47	36	29	24	33	27	23	31	25	22	28	24	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21590	21590	21590
5°	21625	20578	20433
10°	21449	19641	19251
15°	21135	18696	18008
20°	20710	17668	16831
25°	20287	16595	15656
30°	19755	15586	14422
35°	19254	14522	13210
40°	18632	13472	12065
45°	18016	12431	10943
50°	17342	11370	9778
55°	16635	10236	8673
60°	15840	9011	7527
65°	14966	7763	6320
70°	13858	6397	5104
75°	12324	4931	3941
80°	10467	3352	2537
85°	7600	1558	1079

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18016 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.7
10°-20°	361.2	7.6
20°-30°	530.8	11.1
30°-40°	616.5	12.9
40°-50°	615.7	12.9
50°-60°	536.9	11.2
60°-70°	396.9	8.3
70°-80°	224.5	4.7
80°-90°	60.0	1.3
90°-100°	14.7	0.3
100°-110°	54.9	1.1
110°-120°	145.7	3.0
120°-130°	241.7	5.1
130°-140°	256.7	5.4
140°-150°	238.6	5.0
150°-160°	191.8	4.0
160°-170°	123.6	2.6
170°-180°	42.5	0.9
0°-30°	1020.3	21.3
0°-40°	1636.8	34.2
0°-60°	2789.4	58.3
0°-90°	3470.8	72.6
90°-120°	215.4	4.5
90°-150°	952.3	19.9
90°-180°	1310.0	27.4
0°-180°	4781.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1364	1359	1344	1355	1352	129
15°	1298	1290	1273	1279	1272	366
25°	1175	1165	1142	1145	1142	541
35°	1014	1001	980	972	965	633
45°	825	816	796	782	776	637
55°	624	616	601	585	578	558
65°	421	413	400	388	382	416
75°	220	218	211	203	206	235
85°	54	52	51	47	46	60
90°	0	4	6	8	9	4
95°	21	10	13	14	14	25
105°	98	108	20	23	25	105
115°	186	191	200	50	26	183
125°	263	267	273	276	276	234
135°	325	330	333	337	336	251
145°	377	377	383	385	383	236
155°	416	413	416	418	416	191
165°	438	436	437	439	437	124
175°	448	446	446	448	445	43
180°	447	447	447	447	447	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.9	1363.9	1363.9	1363.9	1363.9
2.5°	1371.8	1365.2	1350.8	1363.9	1361.3
5°	1363.9	1358.7	1344.2	1354.7	1352.1
7.5°	1354.7	1346.9	1332.4	1342.9	1340.3
10°	1340.3	1331.1	1315.4	1325.9	1321.9
12.5°	1320.6	1312.8	1297.0	1303.6	1301.0
15°	1298.3	1290.5	1273.4	1278.7	1272.1
17.5°	1270.8	1262.9	1245.9	1252.4	1245.9
20°	1240.6	1232.8	1214.4	1218.3	1213.1
22.5°	1210.5	1198.7	1181.6	1181.6	1179.0
25°	1175.1	1164.6	1142.3	1144.9	1142.3
27.5°	1135.7	1126.5	1109.5	1105.6	1099.0
30°	1096.4	1085.9	1066.2	1062.3	1057.0
32.5°	1054.4	1046.5	1025.6	1017.7	1012.4
35°	1013.8	1000.6	979.7	971.8	965.2
37.5°	967.9	956.0	935.1	925.9	919.3
40°	920.6	910.1	889.2	877.4	872.1
42.5°	874.7	864.2	843.3	830.1	822.3
45°	824.9	815.7	796.1	781.6	776.4
47.5°	776.4	767.2	746.2	731.8	723.9
50°	725.2	718.7	700.3	682.0	675.4
52.5°	675.4	666.2	649.2	634.7	625.6
55°	624.3	616.4	600.6	584.9	578.3
57.5°	573.1	566.5	549.5	533.8	528.5
60°	522.0	516.7	498.4	483.9	480.0
62.5°	472.1	462.9	449.8	436.7	431.5
65°	421.0	413.1	400.0	388.2	381.6
67.5°	368.5	362.0	350.2	341.0	335.7
70°	320.0	314.7	302.9	293.8	288.5
72.5°	270.2	264.9	258.4	249.2	245.2
75°	220.3	217.7	211.1	203.3	205.9
77.5°	175.7	170.5	167.9	163.9	160.0
80°	131.1	129.8	127.2	123.3	120.7
82.5°	89.2	89.2	87.9	82.6	82.6
85°	53.8	52.5	51.1	47.2	45.9
87.5°	23.6	21.0	18.4	14.4	13.1
90°	0.3	3.9	6.5	8.1	8.7
92.5°	8.1	6.8	7.8	8.4	8.7
95°	21.0	10.3	12.6	14.2	13.9
97.5°	37.8	11.3	16.5	17.5	17.8
100°	57.2	12.9	18.4	21.0	21.7
102.5°	78.6	77.9	19.1	22.6	23.6
105°	98.3	108.0	19.7	23.3	24.6
107.5°	121.3	129.4	20.4	23.9	25.2
110°	143.3	150.1	56.6	24.3	25.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	164.0	169.8	164.3	24.9	25.9
115°	185.9	191.4	199.5	49.8	26.5
117.5°	205.0	211.5	217.0	170.7	86.0
120°	226.4	231.2	237.0	240.9	197.3
122.5°	244.5	249.7	256.1	258.1	258.4
125°	262.9	267.1	273.3	275.5	276.5
127.5°	279.7	284.3	289.1	292.3	292.7
130°	295.6	300.7	304.3	307.9	307.5
132.5°	311.7	315.9	319.5	322.4	322.1
135°	325.3	330.5	333.4	336.6	336.0
137.5°	339.6	343.4	346.7	349.9	348.9
140°	353.5	356.0	359.6	362.5	360.9
142.5°	365.1	367.4	371.6	374.2	372.5
145°	377.4	377.1	382.6	384.8	383.2
147.5°	388.1	387.1	392.6	394.2	392.9
150°	398.4	396.1	401.3	403.3	401.6
152.5°	407.1	404.6	409.4	411.3	409.1
155°	415.6	412.6	416.5	418.5	415.9
157.5°	422.3	419.8	422.7	424.9	422.3
160°	428.2	426.2	428.2	430.1	427.8
162.5°	433.3	431.4	433.0	435.3	432.4
165°	437.9	435.9	436.9	439.2	436.9
167.5°	441.4	439.5	440.5	442.7	439.8
170°	444.3	442.4	443.0	445.3	442.4
172.5°	446.3	444.3	445.0	447.2	444.3
175°	447.9	445.6	446.3	448.5	445.3
177.5°	448.5	446.3	446.6	448.9	446.0
180°	446.9	446.9	446.9	446.9	446.9

(END OF REPORT)