

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: P1009508

Luminaire Tested: S122DIP-B865D330UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009508
REPORT IS A COMBINATION OF REPORTS P984827 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-F1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

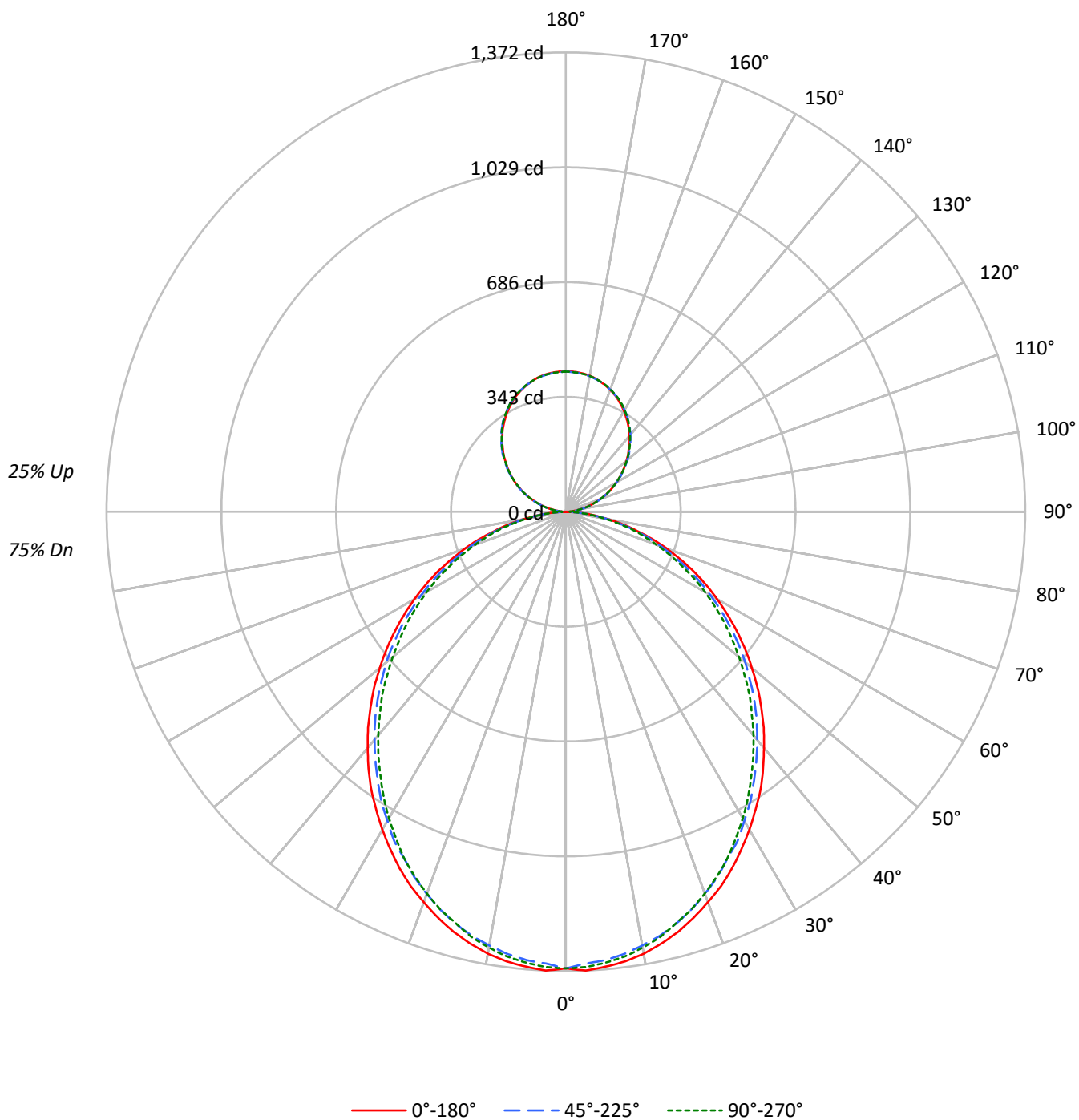
Lumens per Lamp: N/A
Luminaire Lumens: 4642.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	97	97	97	88	88	88	79	79	79
1	103	99	95	91	98	94	91	87	85	83	80	77	75	73	70	68	67
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	59	56
3	86	76	68	62	81	73	66	60	66	60	56	60	56	52	54	51	48
4	79	67	59	53	75	64	57	51	59	53	48	54	49	44	49	45	41
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36
6	67	54	46	40	63	52	44	39	48	41	36	44	38	34	40	35	32
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28
8	58	45	37	31	55	43	35	30	40	33	29	36	31	27	34	29	25
9	54	41	33	28	51	39	32	27	36	30	26	34	28	24	31	26	23
10	50	38	30	25	48	36	29	25	34	28	23	31	26	22	29	24	21

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	2.8
10°-20°	361.2	7.8
20°-30°	530.8	11.4
30°-40°	616.5	13.3
40°-50°	615.7	13.3
50°-60°	536.9	11.6
60°-70°	396.9	8.5
70°-80°	224.5	4.8
80°-90°	60.5	1.3
90°-100°	25.9	0.6
100°-110°	82.3	1.8
110°-120°	140.9	3.0
120°-130°	185.3	4.0
130°-140°	208.0	4.5
140°-150°	204.0	4.4
150°-160°	171.1	3.7
160°-170°	113.5	2.4
170°-180°	39.7	0.9
0°-30°	1020.3	22.0
0°-40°	1636.8	35.3
0°-60°	2789.4	60.1
0°-90°	3471.2	74.8
90°-120°	249.2	5.4
90°-150°	846.5	18.2
90°-180°	1171.0	25.2
0°-180°	4642.0	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	5	12	12	12	4
95°	18	22	23	23	22	21
105°	76	77	78	78	78	80
115°	141	144	143	142	141	140
125°	206	209	208	207	206	184
135°	266	270	271	270	269	206
145°	323	326	328	328	326	202
155°	369	370	371	373	372	170
165°	402	402	402	404	402	113
175°	418	417	416	419	417	40
180°	419	419	419	419	419	

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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°	0.4	4.6	12.4	11.7	12.0
92.5°	7.8	10.6	11.0	11.3	11.3
95°	18.4	21.9	22.6	22.6	21.9
97.5°	30.7	33.9	35.3	35.3	35.3
100°	44.9	47.7	48.8	48.8	48.4
102.5°	59.7	61.8	63.3	63.6	63.3
105°	76.0	77.0	77.7	78.5	78.5
107.5°	92.2	93.6	93.6	94.0	92.2
110°	107.8	109.9	109.9	109.9	108.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	124.7	126.9	126.5	125.5	124.7
115°	141.4	143.5	142.8	142.4	141.4
117.5°	158.0	160.8	159.0	158.0	156.9
120°	174.6	177.4	174.6	174.6	173.5
122.5°	189.8	193.3	191.5	190.5	189.8
125°	205.7	208.9	207.8	206.7	206.4
127.5°	221.2	225.1	223.7	222.3	221.2
130°	235.7	240.3	239.6	238.9	237.5
132.5°	252.0	255.5	255.9	254.1	253.0
135°	266.1	270.0	270.7	270.3	269.3
137.5°	281.7	284.8	285.5	285.2	283.8
140°	295.4	298.6	300.4	300.4	299.0
142.5°	309.6	312.8	313.8	314.2	312.8
145°	323.0	325.5	327.6	328.0	326.5
147.5°	335.0	338.2	339.6	340.3	338.9
150°	347.4	349.5	350.9	352.0	350.9
152.5°	358.3	360.5	362.2	363.6	362.2
155°	369.3	370.4	371.4	373.2	372.1
157.5°	378.8	379.5	380.3	382.7	381.0
160°	387.3	388.0	388.4	390.5	389.1
162.5°	395.1	395.1	395.4	397.9	396.2
165°	401.8	401.5	401.5	403.9	402.2
167.5°	407.8	406.8	406.8	409.2	407.5
170°	412.4	411.4	411.0	413.5	411.4
172.5°	415.6	414.5	414.2	416.7	414.5
175°	418.1	417.0	416.3	418.8	416.7
177.5°	419.5	418.4	417.7	419.8	417.7
180°	418.8	418.8	418.8	418.8	418.8

(END OF REPORT)