

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: P1009180

Luminaire Tested: S122DIP-B485D925UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009180
REPORT IS A COMBINATION OF REPORTS P984388 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B485D925UB30-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

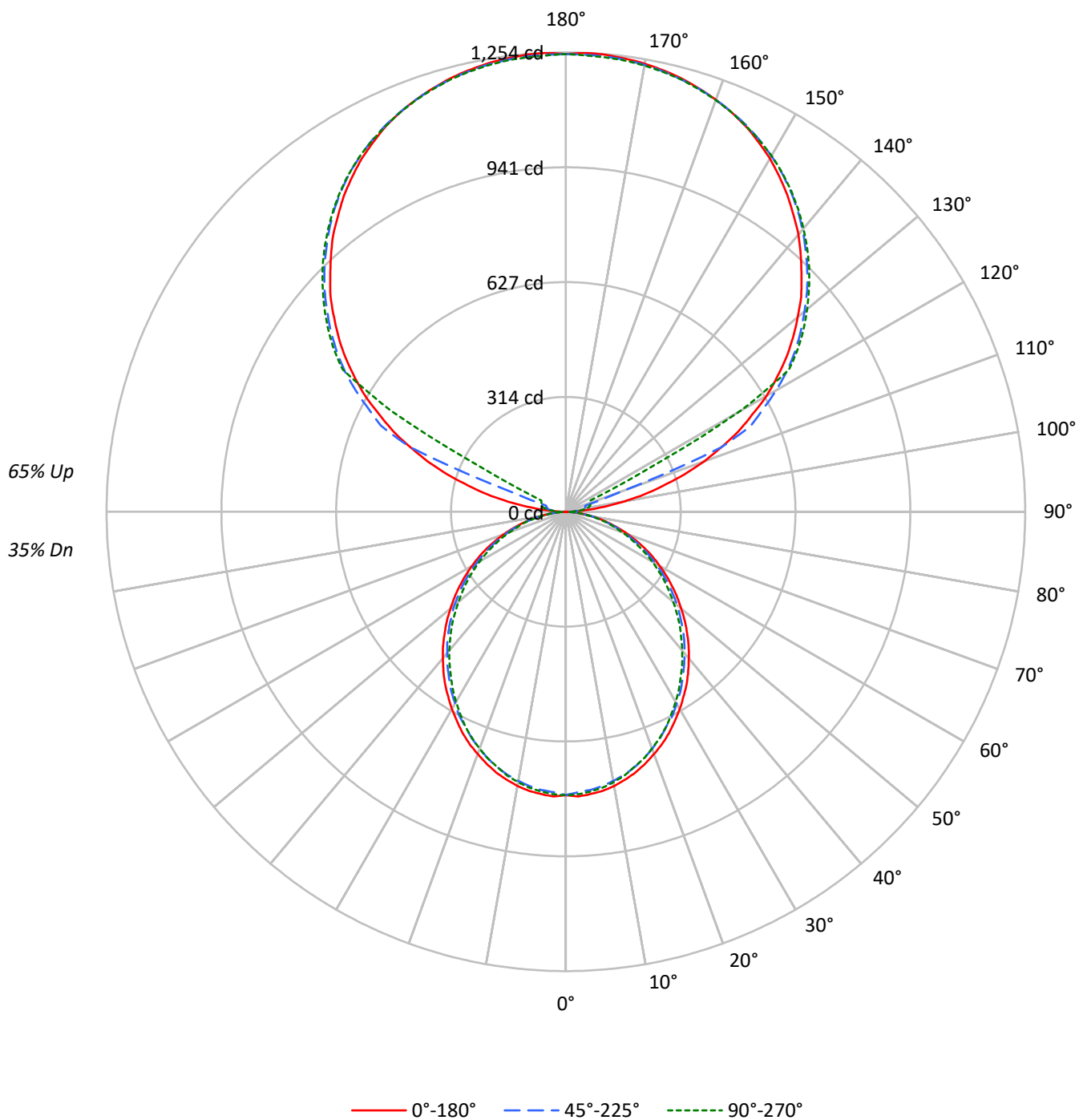
Lumens per Lamp: N/A
Luminaire Lumens: 5633.0 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 52.5
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	94	90	86	83	85	82	78	76	66	63	61	51	49	48	37	37	36
2	86	79	73	68	77	71	66	62	57	54	51	45	42	40	33	31	30
3	78	69	62	56	71	63	57	52	51	46	43	40	36	34	29	27	26
4	72	61	53	48	64	56	49	44	45	40	36	35	32	29	26	24	22
5	66	54	46	41	59	49	43	37	40	35	31	32	28	25	23	21	19
6	60	49	41	35	54	44	37	32	36	31	27	28	25	22	21	19	17
7	56	44	36	31	50	40	33	28	33	28	24	26	22	19	19	17	15
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	13
9	48	36	29	24	43	33	27	22	27	22	19	22	18	15	16	14	12
10	45	33	26	21	41	30	24	20	25	20	17	20	16	14	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12244	12244	12244
5°	12264	11672	11588
10°	12164	11139	10918
15°	11986	10603	10214
20°	11745	10020	9546
25°	11505	9411	8879
30°	11204	8840	8180
35°	10918	8236	7492
40°	10567	7641	6843
45°	10217	7050	6206
50°	9836	6449	5545
55°	9433	5807	4919
60°	8982	5109	4268
65°	8489	4404	3584
70°	7860	3628	2894
75°	6993	2796	2236
80°	5940	1900	1438
85°	4308	884	611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10217 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	1.3
10°-20°	204.8	3.6
20°-30°	301.0	5.3
30°-40°	349.6	6.2
40°-50°	349.2	6.2
50°-60°	304.5	5.4
60°-70°	225.1	4.0
70°-80°	127.3	2.3
80°-90°	35.8	0.6
90°-100°	41.2	0.7
100°-110°	153.6	2.7
110°-120°	407.3	7.2
120°-130°	675.6	12.0
130°-140°	717.6	12.7
140°-150°	666.9	11.8
150°-160°	536.2	9.5
160°-170°	345.5	6.1
170°-180°	118.9	2.1
0°-30°	578.7	10.3
0°-40°	928.3	16.5
0°-60°	1582.0	28.1
0°-90°	1970.2	35.0
90°-120°	602.1	10.7
90°-150°	2662.2	47.3
90°-180°	3663.0	65.0
0°-180°	5633.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	774	774	774	774	774	
5°	774	771	762	768	767	73
15°	736	732	722	725	722	207
25°	666	660	648	649	648	307
35°	575	568	556	551	547	359
45°	468	463	452	443	440	361
55°	354	350	341	332	328	317
65°	239	234	227	220	216	236
75°	125	124	120	115	117	133
85°	30	30	29	27	26	34
90°	1	11	18	23	24	5
95°	59	29	35	40	39	70
105°	275	302	55	65	69	294
115°	520	535	558	139	74	512
125°	735	747	764	770	773	656
135°	910	924	932	941	939	703
145°	1055	1054	1070	1076	1071	660
155°	1162	1154	1164	1170	1163	535
165°	1224	1219	1221	1228	1221	346
175°	1252	1246	1248	1254	1245	119
180°	1249	1249	1249	1249	1249	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	773.5	773.5	773.5	773.5	773.5
2.5°	778.0	774.3	766.1	773.5	772.0
5°	773.5	770.6	762.4	768.3	766.8
7.5°	768.3	763.9	755.7	761.6	760.1
10°	760.1	754.9	746.0	752.0	749.7
12.5°	749.0	744.5	735.6	739.3	737.8
15°	736.3	731.9	722.2	725.2	721.5
17.5°	720.7	716.3	706.6	710.3	706.6
20°	703.6	699.2	688.7	691.0	688.0
22.5°	686.5	679.8	670.2	670.2	668.7
25°	666.4	660.5	647.8	649.3	647.8
27.5°	644.1	638.9	629.2	627.0	623.3
30°	621.8	615.9	604.7	602.5	599.5
32.5°	598.0	593.5	581.6	577.2	574.2
35°	574.9	567.5	555.6	551.1	547.4
37.5°	548.9	542.2	530.3	525.1	521.4
40°	522.1	516.2	504.3	497.6	494.6
42.5°	496.1	490.2	478.3	470.8	466.4
45°	467.8	462.6	451.5	443.3	440.3
47.5°	440.3	435.1	423.2	415.0	410.6
50°	411.3	407.6	397.2	386.8	383.0
52.5°	383.0	377.8	368.2	360.0	354.8
55°	354.0	349.6	340.7	331.7	328.0
57.5°	325.0	321.3	311.6	302.7	299.7
60°	296.0	293.1	282.6	274.5	272.2
62.5°	267.8	262.6	255.1	247.7	244.7
65°	238.8	234.3	226.9	220.2	216.4
67.5°	209.0	205.3	198.6	193.4	190.4
70°	181.5	178.5	171.8	166.6	163.6
72.5°	153.2	150.2	146.5	141.3	139.1
75°	125.0	123.5	119.7	115.3	116.8
77.5°	99.7	96.7	95.2	93.0	90.7
80°	74.4	73.6	72.1	69.9	68.4
82.5°	50.6	50.6	49.8	46.9	46.9
85°	30.5	29.8	29.0	26.8	26.0
87.5°	13.4	11.9	10.4	8.2	7.4
90°	0.9	10.8	18.1	22.6	24.4
92.5°	22.6	19.0	21.7	23.5	24.4
95°	58.8	28.9	35.3	39.8	38.9
97.5°	105.8	31.6	46.1	48.8	49.7
100°	160.0	36.2	51.5	58.8	60.6
102.5°	219.7	217.9	53.3	63.3	66.0
105°	274.8	302.0	55.1	65.1	68.7
107.5°	339.0	361.6	57.0	66.9	70.5
110°	400.5	419.5	158.2	67.8	71.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	458.4	474.6	459.3	69.6	72.3
115°	519.8	535.2	557.8	139.2	74.1
117.5°	573.2	591.2	606.6	477.3	240.5
120°	632.8	646.4	662.7	673.5	551.5
122.5°	683.5	697.9	716.0	721.4	722.3
125°	735.0	746.7	763.9	770.3	773.0
127.5°	782.0	794.7	808.2	817.3	818.2
130°	826.3	840.8	850.7	860.7	859.8
132.5°	871.5	883.3	893.2	901.3	900.4
135°	909.5	923.9	932.1	941.1	939.3
137.5°	949.3	960.1	969.1	978.2	975.5
140°	988.1	995.4	1005.3	1013.4	1008.9
142.5°	1020.7	1027.0	1038.8	1046.0	1041.5
145°	1055.0	1054.1	1069.5	1075.8	1071.3
147.5°	1084.9	1082.2	1097.5	1102.0	1098.4
150°	1113.8	1107.5	1121.9	1127.4	1122.8
152.5°	1138.2	1131.0	1144.5	1150.0	1143.6
155°	1161.7	1153.6	1164.4	1169.8	1162.6
157.5°	1180.7	1173.5	1181.6	1187.9	1180.7
160°	1197.0	1191.5	1197.0	1202.4	1196.1
162.5°	1211.4	1206.0	1210.5	1216.9	1208.7
165°	1224.1	1218.7	1221.4	1227.7	1221.4
167.5°	1234.0	1228.6	1231.3	1237.6	1229.5
170°	1242.2	1236.7	1238.6	1244.9	1236.7
172.5°	1247.6	1242.2	1244.0	1250.3	1242.2
175°	1252.1	1245.8	1247.6	1253.9	1244.9
177.5°	1253.9	1247.6	1248.5	1254.8	1246.7
180°	1249.4	1249.4	1249.4	1249.4	1249.4

(END OF REPORT)