

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: P1009640

Luminaire Tested: S122DIP-B865D925UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009640
REPORT IS A COMBINATION OF REPORTS P985004 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D925UB40-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

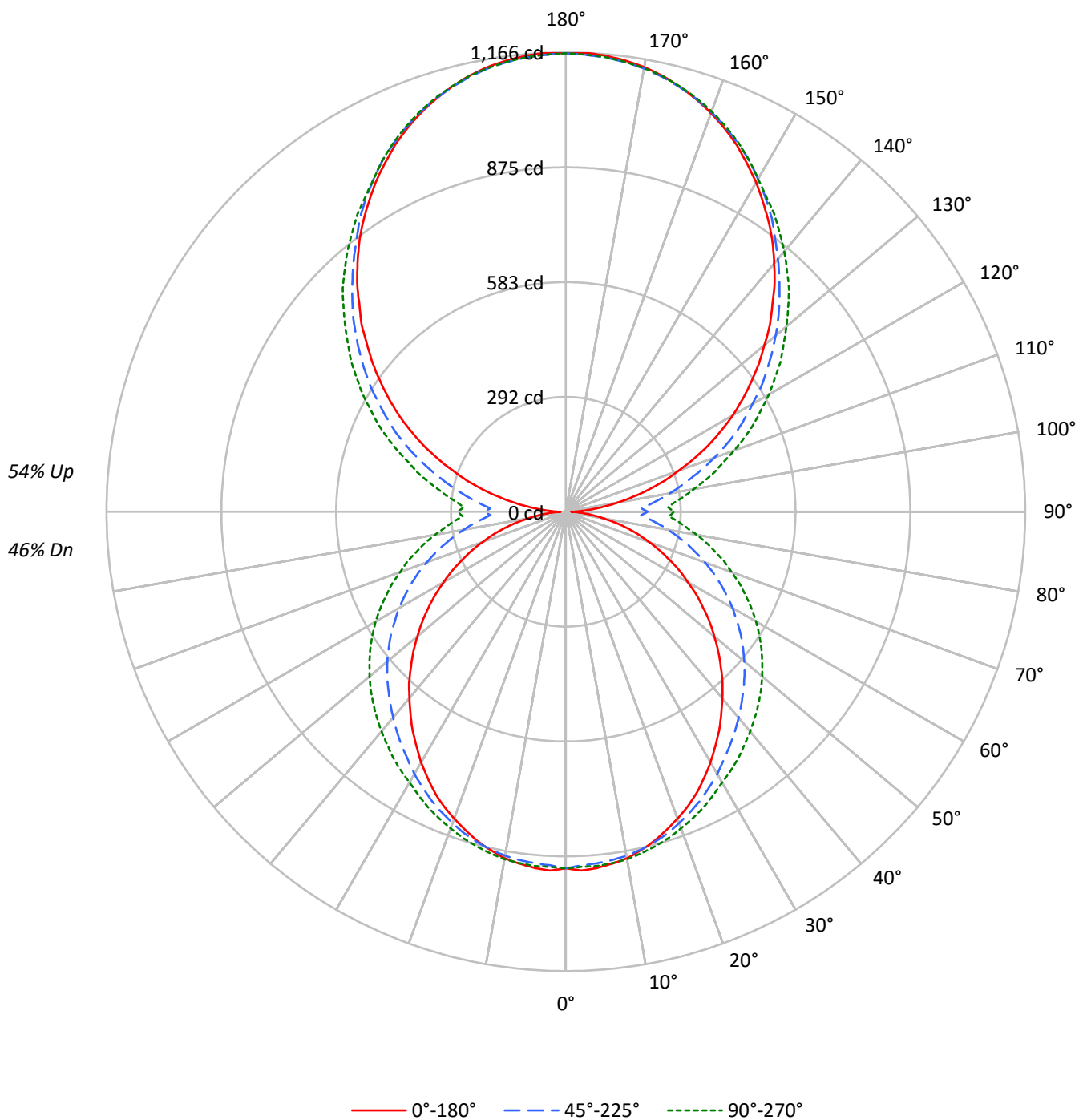
Lumens per Lamp: N/A
Luminaire Lumens: 6711.0 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	95	91	86	82	87	83	79	76	69	66	64	56	54	52	44	43	41
2	86	78	72	66	79	72	66	61	60	55	52	48	45	42	38	36	34
3	78	68	61	54	71	63	56	50	52	47	43	42	38	35	33	30	28
4	72	60	52	46	65	55	48	42	46	40	36	37	33	30	29	26	24
5	65	53	45	39	60	49	42	36	41	35	31	33	29	26	26	23	21
6	60	48	39	33	55	44	36	31	37	31	27	30	26	22	24	20	18
7	56	43	35	29	51	40	32	27	33	27	23	27	23	19	22	18	16
8	51	39	31	25	47	36	29	24	30	25	21	25	20	17	20	17	14
9	48	35	28	23	44	33	26	21	28	22	18	23	18	15	18	15	13
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14326	14326	14326
5°	14390	13714	13636
10°	14294	13239	13046
15°	14091	12747	12439
20°	13837	12231	11864
25°	13585	11737	11343
30°	13234	11236	10827
35°	12878	10751	10447
40°	12502	10333	10070
45°	12145	9953	9742
50°	11761	9603	9417
55°	11357	9232	9087
60°	10863	8845	8741
65°	10352	8400	8341
70°	9770	7922	7911
75°	9023	7444	7505
80°	7856	6946	7087
85°	6667	6480	6723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12145 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.3
10°-20°	246.0	3.7
20°-30°	372.8	5.6
30°-40°	454.0	6.8
40°-50°	488.4	7.3
50°-60°	474.4	7.1
60°-70°	414.3	6.2
70°-80°	318.8	4.8
80°-90°	216.9	3.2
90°-100°	219.3	3.3
100°-110°	336.5	5.0
110°-120°	462.8	6.9
120°-130°	554.8	8.3
130°-140°	594.9	8.9
140°-150°	569.9	8.5
150°-160°	475.7	7.1
160°-170°	315.5	4.7
170°-180°	110.3	1.6
0°-30°	704.6	10.5
0°-40°	1158.6	17.3
0°-60°	2121.4	31.6
0°-90°	3071.4	45.8
90°-120°	1018.6	15.2
90°-150°	2738.2	40.8
90°-180°	3640.0	54.2
0°-180°	6711.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	905	905	905	905	905	
5°	908	904	896	904	902	86
15°	866	868	868	880	879	244
25°	787	796	808	824	828	362
35°	678	700	725	754	763	424
45°	556	592	637	678	691	429
55°	426	474	542	589	606	381
65°	291	355	433	487	504	289
75°	161	235	319	375	392	171
85°	47	128	212	268	286	50
90°	14	102	208	258	275	12
95°	62	133	214	264	277	65
105°	218	259	329	377	391	231
115°	398	418	476	514	526	393
125°	574	583	622	655	666	514
135°	741	752	767	794	801	573
145°	898	905	911	920	922	561
155°	1027	1030	1032	1037	1034	473
165°	1117	1116	1116	1123	1118	315
175°	1162	1159	1157	1164	1158	110
180°	1164	1164	1164	1164	1164	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	905.0	905.0	905.0	905.0	905.0
2.5°	911.5	907.6	898.4	905.0	902.3
5°	907.6	903.6	895.8	903.6	902.3
7.5°	901.0	898.4	891.8	901.0	899.7
10°	893.2	890.5	886.6	897.1	895.8
12.5°	880.0	881.3	878.7	889.2	887.9
15°	865.6	868.2	868.2	880.0	878.7
17.5°	847.2	852.5	856.4	868.2	868.2
20°	828.9	835.4	840.7	855.1	855.1
22.5°	809.2	817.1	825.0	839.4	842.0
25°	786.9	796.1	807.9	823.6	827.6
27.5°	760.7	775.1	788.2	807.9	810.5
30°	734.5	751.5	768.6	789.5	793.5
32.5°	705.6	725.3	746.3	771.2	779.1
35°	678.1	700.4	725.3	754.1	763.3
37.5°	647.9	672.8	704.3	735.8	745.0
40°	617.7	646.6	682.0	716.1	727.9
42.5°	588.9	617.7	659.7	697.7	709.5
45°	556.1	591.5	637.4	678.1	691.2
47.5°	524.6	562.6	615.1	657.1	671.5
50°	491.8	532.5	591.5	636.1	650.5
52.5°	460.3	503.6	566.6	612.5	628.2
55°	426.2	473.5	541.7	588.9	605.9
57.5°	393.5	445.9	514.1	565.3	582.3
60°	358.0	414.4	489.2	539.0	557.4
62.5°	326.6	385.6	460.3	514.1	531.2
65°	291.2	355.4	432.8	486.6	503.6
67.5°	259.7	326.6	405.3	459.0	477.4
70°	225.6	293.8	375.1	431.5	447.2
72.5°	194.1	264.9	347.6	402.6	422.3
75°	161.3	234.8	318.7	375.1	392.1
77.5°	129.8	205.9	291.2	347.6	365.9
80°	98.4	178.4	263.6	318.7	337.1
82.5°	72.1	150.8	237.4	292.5	309.5
85°	47.2	128.5	212.5	267.6	285.9
87.5°	28.9	107.5	191.5	245.3	262.3
90°	14.1	102.0	207.5	258.0	274.7
92.5°	33.4	110.8	191.8	243.9	259.6
95°	61.6	133.0	213.7	263.6	277.3
97.5°	94.7	159.9	239.8	288.4	304.1
100°	134.0	190.3	266.8	315.3	328.7
102.5°	173.9	223.0	297.8	346.0	359.4
105°	217.8	258.8	328.9	376.8	391.2
107.5°	263.0	298.3	363.9	409.5	419.0
110°	304.8	337.0	401.2	443.2	454.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	352.0	378.9	438.3	477.2	489.8
115°	398.2	418.5	475.6	513.9	525.5
117.5°	443.0	461.4	511.6	548.0	558.2
120°	489.2	502.4	546.9	583.7	595.2
122.5°	531.4	542.6	586.3	618.7	628.5
125°	574.3	583.2	622.2	654.7	665.5
127.5°	617.6	627.1	658.6	687.4	696.3
130°	657.9	669.3	695.0	724.4	731.0
132.5°	703.0	711.6	732.2	757.4	765.0
135°	741.0	751.8	766.9	793.5	801.1
137.5°	784.3	793.1	801.7	825.6	830.9
140°	822.6	830.1	837.6	858.6	862.6
142.5°	861.9	869.4	872.4	889.0	891.7
145°	897.9	904.8	910.7	919.6	922.1
147.5°	931.3	940.1	944.1	947.3	947.3
150°	965.7	971.6	975.5	978.5	975.5
152.5°	996.1	1002.0	1006.9	1010.9	1006.9
155°	1026.6	1029.5	1032.5	1037.4	1034.5
157.5°	1053.1	1055.1	1057.0	1063.9	1059.0
160°	1076.7	1078.7	1079.6	1085.5	1081.6
162.5°	1098.3	1098.3	1099.3	1106.2	1101.3
165°	1117.0	1116.0	1116.0	1122.9	1118.0
167.5°	1133.7	1130.7	1130.7	1137.6	1132.7
170°	1146.4	1143.5	1142.5	1149.4	1143.5
172.5°	1155.3	1152.3	1151.4	1158.2	1152.3
175°	1162.2	1159.2	1157.3	1164.1	1158.2
177.5°	1166.1	1163.1	1161.2	1167.1	1161.2
180°	1164.1	1164.1	1164.1	1164.1	1164.1

(END OF REPORT)