

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: P1009595

Luminaire Tested: S122DIP-B865D725UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009595
REPORT IS A COMBINATION OF REPORTS P984944 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB40-4F0-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

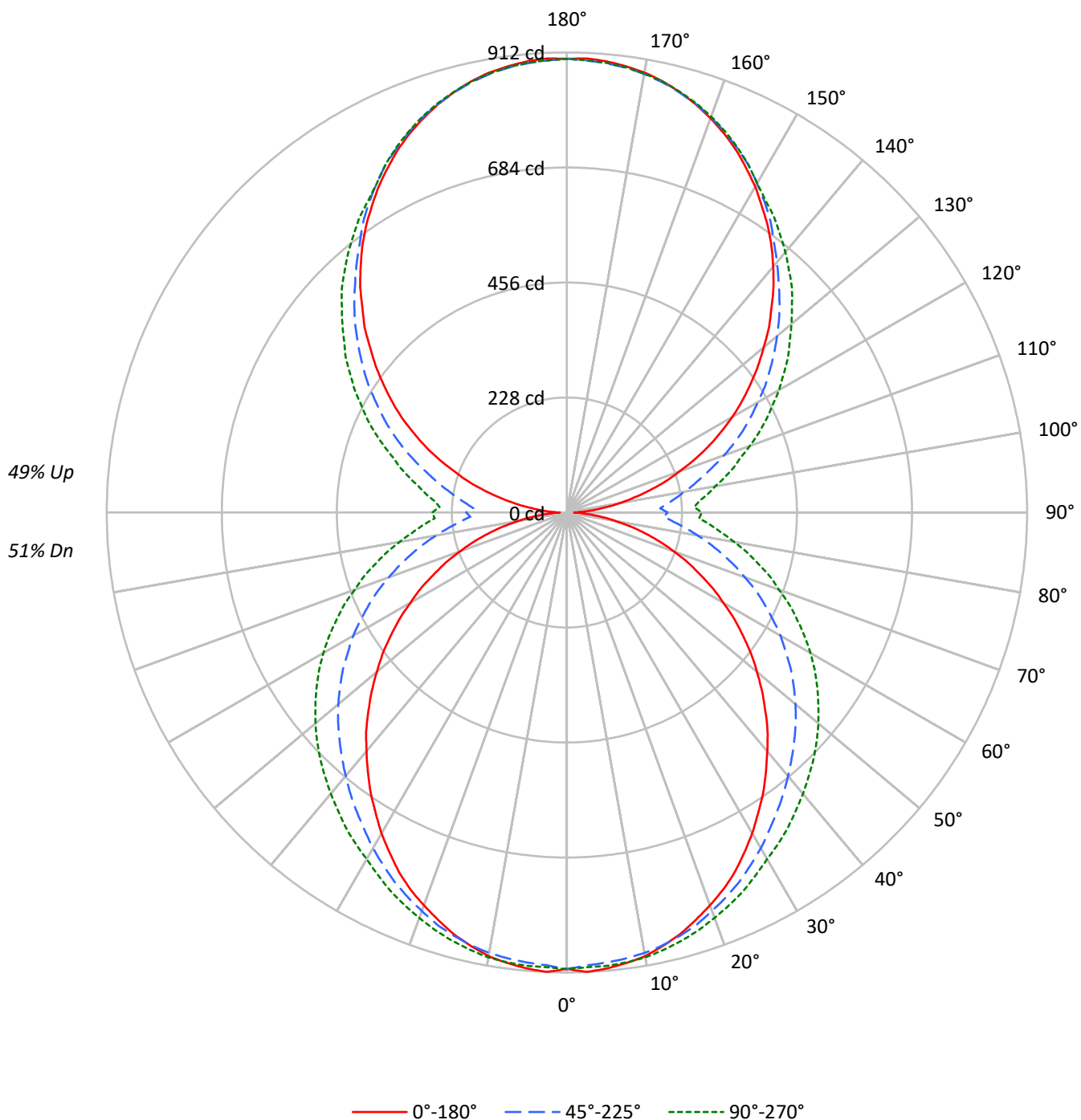
Lumens per Lamp: N/A
Luminaire Lumens: 5970.0 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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

TEST NUMBER: P1009595

CATALOG NUMBER: S122DIP-B865D725UB40-4F0-XX-W2A-D1

Luminous Intensity Polar Plot



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CATALOG NUMBER: S122DIP-B865D725UB40-4F0-XX-W2A-D1

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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	57	57	57
1	97	92	87	83	89	85	81	77	71	69	66	59	57	55	48	47	45	45	45	40
2	87	79	72	67	80	73	67	62	62	57	53	51	48	45	42	39	37	37	37	32
3	79	69	61	55	73	64	57	51	54	49	44	45	41	37	36	33	31	31	31	27
4	72	61	52	46	66	56	49	43	48	42	37	40	35	32	32	29	26	26	26	22
5	66	54	45	39	61	50	42	37	42	36	32	35	31	27	29	25	23	23	23	19
6	61	48	40	34	56	45	37	32	38	32	28	32	27	24	26	22	20	20	20	17
7	56	43	35	29	52	40	33	28	34	28	24	29	24	21	24	20	17	17	17	15
8	52	39	31	26	48	37	29	24	31	25	21	26	22	18	22	18	15	15	15	13
9	48	36	28	23	45	33	26	22	29	23	19	24	20	16	20	16	14	14	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	13	13	13	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

TEST NUMBER: P1009595

CATALOG NUMBER: S122DIP-B865D725UB40-4F0-XX-W2A-D1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	1.4
10°-20°	246.0	4.1
20°-30°	372.8	6.2
30°-40°	454.0	7.6
40°-50°	488.4	8.2
50°-60°	474.4	7.9
60°-70°	414.3	6.9
70°-80°	318.8	5.3
80°-90°	216.1	3.6
90°-100°	203.0	3.4
100°-110°	284.5	4.8
110°-120°	373.7	6.3
120°-130°	437.6	7.3
130°-140°	463.4	7.8
140°-150°	440.9	7.4
150°-160°	367.5	6.2
160°-170°	243.7	4.1
170°-180°	85.2	1.4
0°-30°	704.6	11.8
0°-40°	1158.6	19.4
0°-60°	2121.4	35.5
0°-90°	3070.6	51.4
90°-120°	861.1	14.4
90°-150°	2203.0	36.9
90°-180°	2899.0	48.6
0°-180°	5970.0	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	99	200	251	267	12
95°	50	119	199	249	264	52
105°	170	210	280	327	342	180
115°	309	328	385	424	436	305
125°	444	451	491	524	535	398
135°	573	581	596	623	631	443
145°	694	699	704	712	716	434
155°	793	795	798	802	799	365
165°	863	862	862	868	864	243
175°	898	896	894	899	895	85
180°	899	899	899	899	899	

TEST NUMBER: P1009595

CATALOG NUMBER: S122DIP-B865D725UB40-4F0-XX-W2A-D1

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°	13.9	99.1	199.7	250.6	267.1
92.5°	28.5	104.1	184.8	236.8	252.5
95°	50.0	119.2	199.4	249.3	263.5
97.5°	75.2	138.5	217.5	266.1	281.8
100°	105.6	160.2	235.9	284.4	298.1
102.5°	136.2	183.9	257.9	305.8	319.5
105°	169.8	210.1	279.8	327.2	341.6
107.5°	204.7	239.1	304.7	350.1	360.7
110°	236.7	267.5	331.7	373.7	385.9

TEST NUMBER: P1009595

CATALOG NUMBER: S122DIP-B865D725UB40-4F0-XX-W2A-D1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	273.1	298.7	358.3	397.9	410.9
115°	308.8	327.8	385.3	423.9	436.1
117.5°	343.2	359.7	411.0	448.2	459.0
120°	378.8	390.2	436.5	473.3	485.4
122.5°	411.5	420.3	465.2	498.3	508.6
125°	444.3	451.1	490.9	524.0	535.0
127.5°	477.7	484.8	517.1	546.9	556.4
130°	508.8	517.4	543.5	573.4	580.8
132.5°	543.7	550.0	570.5	596.8	605.0
135°	572.8	581.1	595.8	622.6	630.8
137.5°	606.2	613.0	621.1	645.3	651.4
140°	635.8	641.3	647.7	668.7	673.6
142.5°	666.1	671.7	674.0	690.4	694.0
145°	693.7	699.0	703.6	712.2	715.7
147.5°	719.5	726.3	729.4	732.2	733.0
150°	746.1	750.6	753.6	755.9	753.6
152.5°	769.6	774.1	777.9	781.0	777.9
155°	793.1	795.4	797.7	801.5	799.2
157.5°	813.6	815.1	816.6	821.9	818.2
160°	831.8	833.3	834.1	838.6	835.6
162.5°	848.5	848.5	849.3	854.6	850.8
165°	862.9	862.2	862.2	867.5	863.7
167.5°	875.8	873.6	873.6	878.9	875.1
170°	885.7	883.4	882.7	888.0	883.4
172.5°	892.5	890.3	889.5	894.8	890.3
175°	897.8	895.6	894.0	899.4	894.8
177.5°	900.9	898.6	897.1	901.6	897.1
180°	899.4	899.4	899.4	899.4	899.4

(END OF REPORT)