

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: P1009569

Luminaire Tested: S122DIP-B865D725UB27-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009569
REPORT IS A COMBINATION OF REPORTS P984903 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB27-4F0-XX-W2A-D4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

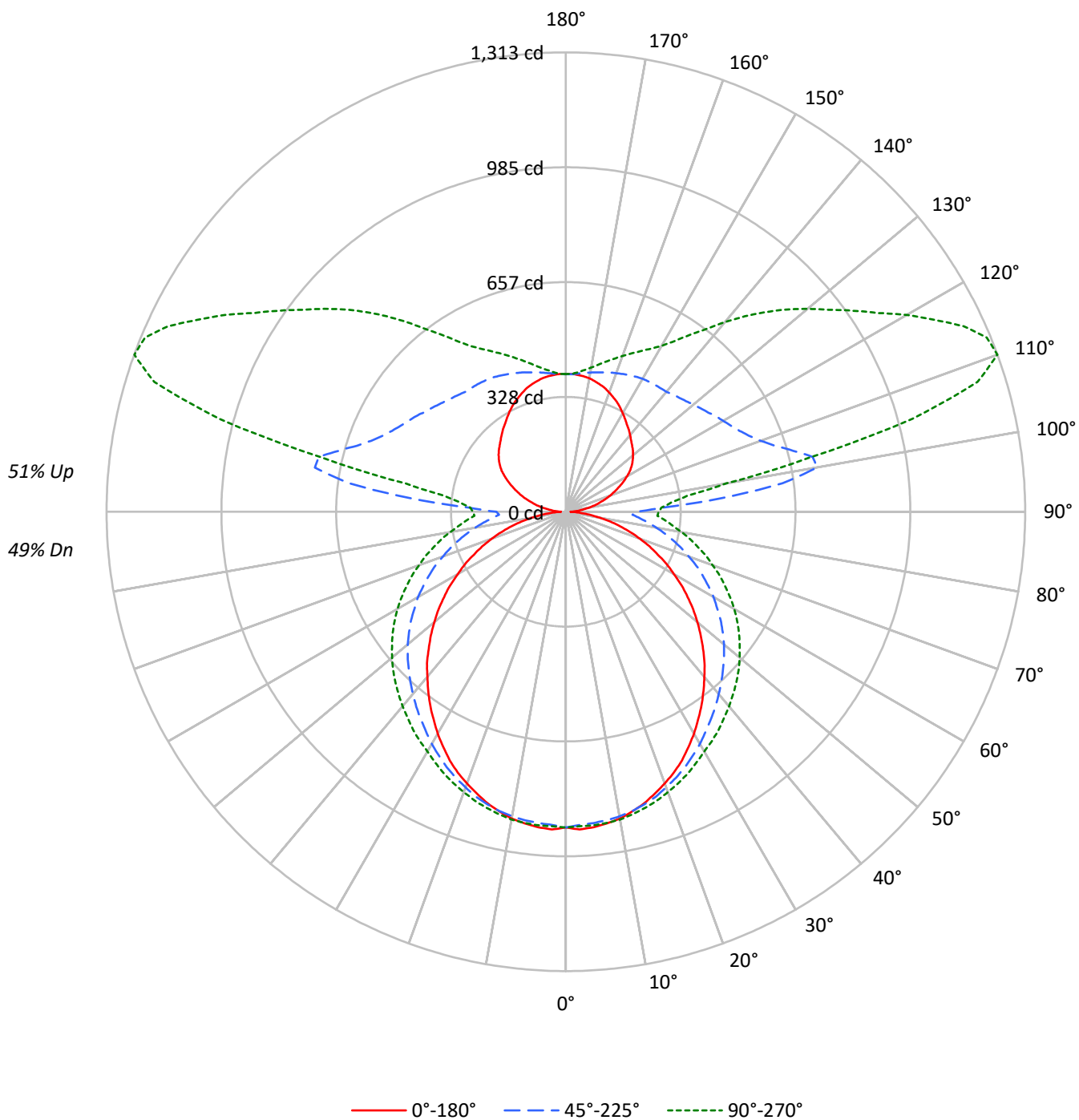
Lumens per Lamp: N/A
Luminaire Lumens: 6189.1 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49		
1	96	91	87	83	88	84	80	77	71	68	65	58	56	54	47	45	44	39		
2	87	79	72	66	80	73	67	62	61	57	53	50	47	44	40	38	36	31		
3	79	69	61	55	72	63	56	51	53	48	44	44	40	37	35	32	30	26		
4	72	61	52	46	66	56	48	43	47	41	37	39	35	31	31	28	25	22		
5	66	54	45	39	60	50	42	36	42	36	31	35	30	27	28	25	22	19		
6	61	48	40	33	55	44	37	31	38	32	27	31	27	23	25	22	19	16		
7	56	43	35	29	51	40	33	27	34	28	24	28	24	20	23	19	17	14		
8	52	39	31	26	48	36	29	24	31	25	21	26	21	18	21	18	15	13		
9	48	36	28	23	44	33	26	21	28	23	19	24	19	16	19	16	13	11		
10	45	33	25	20	41	30	24	19	26	21	17	22	18	14	18	15	12	10		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14283	14283	14283
5°	14349	13674	13596
10°	14252	13200	13008
15°	14050	12710	12404
20°	13797	12196	11829
25°	13546	11704	11310
30°	13195	11202	10795
35°	12840	10720	10417
40°	12465	10303	10041
45°	12110	9925	9714
50°	11727	9576	9390
55°	11325	9205	9062
60°	10833	8819	8716
65°	10320	8376	8318
70°	9740	7899	7888
75°	9001	7423	7484
80°	7832	6928	7066
85°	6653	6461	6704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12110 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.4
10°-20°	245.3	4.0
20°-30°	371.7	6.0
30°-40°	452.7	7.3
40°-50°	487.0	7.9
50°-60°	473.0	7.6
60°-70°	413.1	6.7
70°-80°	317.9	5.1
80°-90°	215.4	3.5
90°-100°	306.4	5.0
100°-110°	646.6	10.4
110°-120°	637.7	10.3
120°-130°	505.6	8.2
130°-140°	391.2	6.3
140°-150°	285.8	4.6
150°-160°	198.9	3.2
160°-170°	117.1	1.9
170°-180°	38.1	0.6
0°-30°	702.6	11.4
0°-40°	1155.3	18.7
0°-60°	2115.3	34.2
0°-90°	3061.7	49.5
90°-120°	1590.7	25.7
90°-150°	2773.3	44.8
90°-180°	3127.0	50.5
0°-180°	6189.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	905	901	893	901	900	86
15°	863	866	866	878	876	243
25°	785	794	806	821	825	361
35°	676	698	723	752	761	423
45°	554	590	636	676	689	428
55°	425	472	540	587	604	380
65°	290	354	432	485	502	288
75°	161	234	318	374	391	170
85°	47	128	212	267	285	50
90°	14	99	198	250	266	11
95°	37	137	447	312	302	36
105°	99	184	673	1160	1026	106
115°	168	225	548	1086	1254	166
125°	230	271	496	864	1002	205
135°	268	319	460	701	807	207
145°	304	350	444	558	617	191
155°	346	374	431	487	506	159
165°	377	388	412	437	444	106
175°	393	393	396	402	400	37
180°	394	394	394	394	394	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.3	902.3	902.3	902.3	902.3
2.5°	908.9	905.0	895.8	902.3	899.7
5°	905.0	901.0	893.2	901.0	899.7
7.5°	898.4	895.8	889.3	898.4	897.1
10°	890.6	888.0	884.0	894.5	893.2
12.5°	877.5	878.8	876.2	886.6	885.3
15°	863.1	865.7	865.7	877.5	876.2
17.5°	844.8	850.0	854.0	865.7	865.7
20°	826.5	833.0	838.3	852.6	852.6
22.5°	806.9	814.7	822.6	836.9	839.6
25°	784.6	793.8	805.6	821.3	825.2
27.5°	758.5	772.9	785.9	805.6	808.2
30°	732.3	749.3	766.3	787.3	791.2
32.5°	703.6	723.2	744.1	768.9	776.8
35°	676.1	698.3	723.2	751.9	761.1
37.5°	646.0	670.9	702.3	733.6	742.8
40°	615.9	644.7	680.0	714.0	725.8
42.5°	587.2	615.9	657.8	695.7	707.5
45°	554.5	589.8	635.6	676.1	689.2
47.5°	523.1	561.0	613.3	655.2	669.6
50°	490.4	530.9	589.8	634.3	648.6
52.5°	459.0	502.2	564.9	610.7	626.4
55°	425.0	472.1	540.1	587.2	604.2
57.5°	392.3	444.6	512.6	563.6	580.6
60°	357.0	413.2	487.8	537.5	555.8
62.5°	325.6	384.5	459.0	512.6	529.6
65°	290.3	354.4	431.6	485.2	502.2
67.5°	258.9	325.6	404.1	457.7	476.0
70°	224.9	292.9	374.0	430.2	445.9
72.5°	193.5	264.2	346.5	401.5	421.1
75°	160.9	234.1	317.8	374.0	391.0
77.5°	129.5	205.3	290.3	346.5	364.9
80°	98.1	177.9	262.9	317.8	336.1
82.5°	71.9	150.4	236.7	291.6	308.6
85°	47.1	128.2	211.9	266.8	285.1
87.5°	28.8	107.2	190.9	244.5	261.5
90°	13.9	99.2	198.3	249.5	265.6
92.5°	23.2	117.0	277.4	265.6	273.7
95°	37.0	137.0	447.1	312.1	302.1
97.5°	48.6	151.3	624.8	414.4	349.8
100°	67.5	162.7	728.6	626.8	464.4
102.5°	83.5	173.6	723.2	925.5	711.3
105°	98.8	183.8	673.3	1160.5	1025.5
107.5°	117.0	193.8	626.2	1239.0	1233.8
110°	133.9	204.3	592.7	1214.2	1312.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	150.5	215.4	566.8	1156.3	1301.9
115°	167.9	225.0	547.7	1086.0	1254.4
117.5°	184.8	236.1	532.4	1019.6	1187.9
120°	201.4	246.8	519.3	958.2	1125.1
122.5°	217.3	259.1	508.4	909.2	1057.3
125°	229.6	271.2	495.5	864.2	1001.9
127.5°	241.0	284.0	485.4	823.0	948.4
130°	250.8	296.4	476.0	782.9	902.3
132.5°	259.9	308.6	467.4	741.6	856.1
135°	267.7	319.1	460.1	700.9	806.8
137.5°	276.0	328.3	453.5	660.0	757.7
140°	285.8	335.2	447.6	622.8	707.2
142.5°	295.7	342.0	445.0	588.2	657.9
145°	304.2	349.6	443.5	558.3	616.8
147.5°	314.8	355.6	441.2	532.6	578.1
150°	325.4	361.7	438.9	514.6	547.1
152.5°	336.0	367.8	435.1	500.6	525.2
155°	345.8	373.5	430.6	487.0	506.3
157.5°	354.2	378.0	426.1	474.1	489.6
160°	362.5	382.5	421.5	461.2	473.7
162.5°	370.8	386.0	417.7	449.1	458.6
165°	376.9	388.2	412.4	437.4	444.2
167.5°	382.2	390.5	407.9	426.8	430.6
170°	387.5	391.6	404.1	417.0	418.5
172.5°	390.5	392.8	399.6	408.3	408.7
175°	392.8	393.2	396.5	401.5	400.3
177.5°	394.3	393.5	393.5	396.5	394.3
180°	393.5	393.5	393.5	393.5	393.5

(END OF REPORT)