

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: P1009586

Luminaire Tested: S122DIP-B865D725UB35-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009586
REPORT IS A COMBINATION OF REPORTS P984935 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB35-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

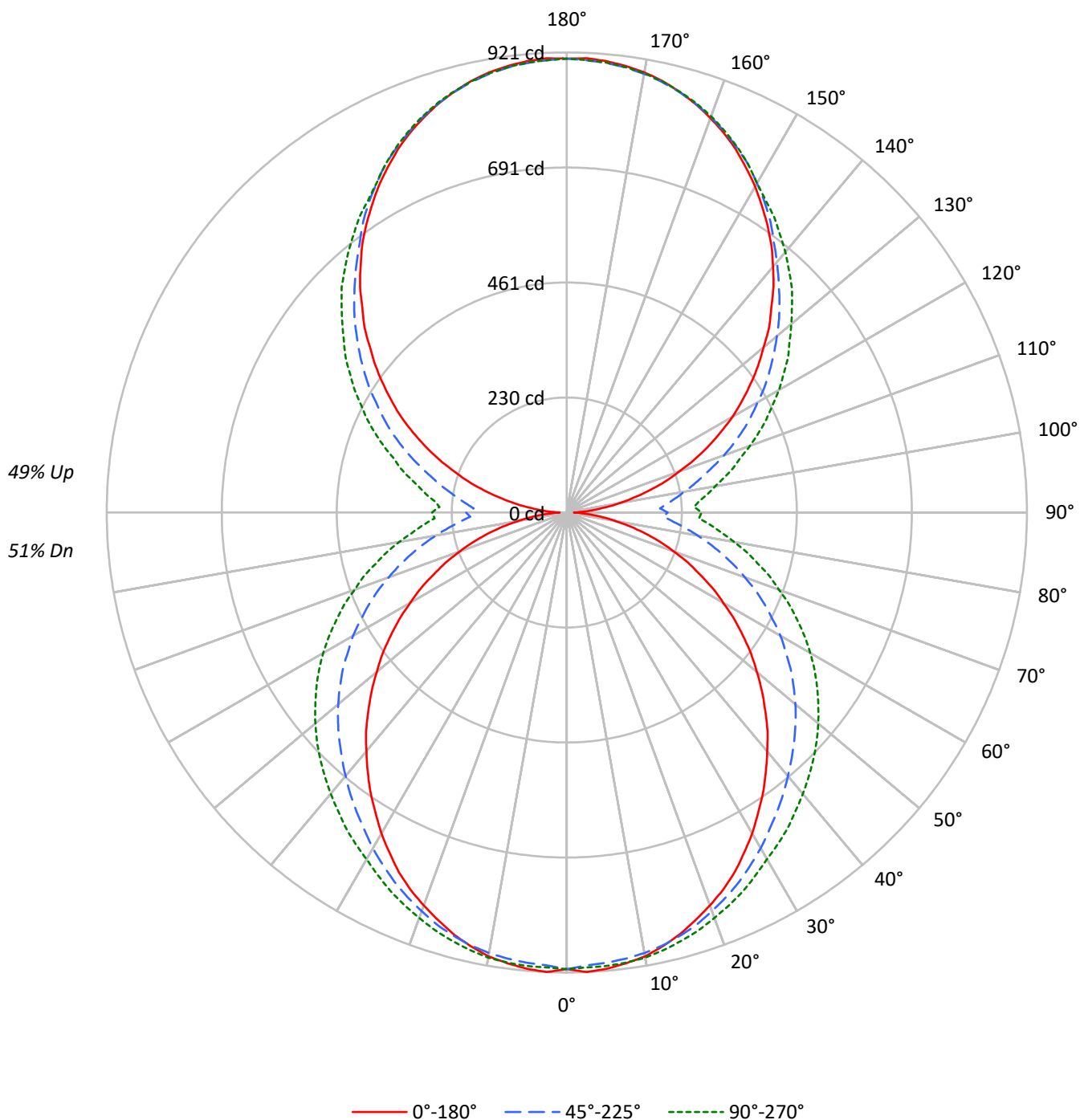
Lumens per Lamp: N/A
Luminaire Lumens: 6031.0 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14470	14470	14470
5°	14536	13853	13775
10°	14438	13373	13178
15°	14234	12876	12565
20°	13977	12355	11985
25°	13723	11856	11458
30°	13368	11348	10936
35°	13007	10860	10552
40°	12629	10437	10173
45°	12268	10054	9841
50°	11880	9701	9513
55°	11474	9326	9180
60°	10976	8935	8830
65°	10455	8485	8425
70°	9870	8002	7993
75°	9118	7519	7581
80°	7936	7018	7158
85°	6738	6544	6791

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12268 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.7	1.4
10°-20°	248.5	4.1
20°-30°	376.6	6.2
30°-40°	458.6	7.6
40°-50°	493.4	8.2
50°-60°	479.2	7.9
60°-70°	418.5	6.9
70°-80°	322.1	5.3
80°-90°	218.3	3.6
90°-100°	205.0	3.4
100°-110°	287.4	4.8
110°-120°	377.5	6.3
120°-130°	442.1	7.3
130°-140°	468.2	7.8
140°-150°	445.5	7.4
150°-160°	371.3	6.2
160°-170°	246.2	4.1
170°-180°	86.1	1.4
0°-30°	711.8	11.8
0°-40°	1170.4	19.4
0°-60°	2142.9	35.5
0°-90°	3101.7	51.4
90°-120°	869.9	14.4
90°-150°	2225.6	36.9
90°-180°	2929.0	48.6
0°-180°	6031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	914	914	914	914	914	
5°	917	913	905	913	912	87
15°	874	877	877	889	888	246
25°	795	804	816	832	836	366
35°	685	708	733	762	771	428
45°	562	598	644	685	698	434
55°	431	478	547	595	612	385
65°	294	359	437	492	509	292
75°	163	237	322	379	396	172
85°	48	130	215	270	289	50
90°	14	100	202	253	270	12
95°	50	120	202	252	266	53
105°	172	212	283	330	345	182
115°	312	331	389	428	440	308
125°	449	456	496	529	540	402
135°	579	587	602	629	637	448
145°	701	706	711	720	723	438
155°	801	804	806	810	807	369
165°	872	871	871	876	873	246
175°	907	905	903	909	904	86
180°	909	909	909	909	909	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	914.1	914.1	914.1	914.1	914.1
2.5°	920.8	916.8	907.5	914.1	911.5
5°	916.8	912.8	904.9	912.8	911.5
7.5°	910.2	907.5	900.9	910.2	908.8
10°	902.2	899.6	895.6	906.2	904.9
12.5°	889.0	890.3	887.6	898.2	896.9
15°	874.4	877.0	877.0	889.0	887.6
17.5°	855.8	861.1	865.1	877.0	877.0
20°	837.3	843.9	849.2	863.8	863.8
22.5°	817.4	825.4	833.3	847.9	850.5
25°	794.9	804.2	816.1	832.0	836.0
27.5°	768.4	783.0	796.2	816.1	818.7
30°	741.9	759.1	776.3	797.5	801.5
32.5°	712.8	732.6	753.8	779.0	786.9
35°	684.9	707.5	732.6	761.8	771.0
37.5°	654.5	679.6	711.4	743.2	752.5
40°	624.0	653.1	688.9	723.4	735.3
42.5°	594.8	624.0	666.4	704.8	716.7
45°	561.7	597.5	643.9	684.9	698.2
47.5°	529.9	568.4	621.3	663.7	678.3
50°	496.8	537.9	597.5	642.5	657.1
52.5°	465.0	508.7	572.3	618.7	634.6
55°	430.6	478.3	547.2	594.8	612.1
57.5°	397.4	450.4	519.3	571.0	588.2
60°	361.7	418.6	494.2	544.5	563.1
62.5°	329.9	389.5	465.0	519.3	536.6
65°	294.1	359.0	437.2	491.5	508.7
67.5°	262.3	329.9	409.4	463.7	482.2
70°	227.9	296.8	378.9	435.9	451.8
72.5°	196.1	267.6	351.1	406.7	426.6
75°	163.0	237.1	321.9	378.9	396.1
77.5°	131.2	208.0	294.1	351.1	369.6
80°	99.4	180.2	266.3	321.9	340.5
82.5°	72.9	152.4	239.8	295.4	312.7
85°	47.7	129.8	214.6	270.3	288.8
87.5°	29.1	108.6	193.4	247.7	265.0
90°	14.0	100.1	201.7	253.2	269.9
92.5°	28.8	105.1	186.8	239.1	255.0
95°	50.5	120.4	201.5	251.8	266.1
97.5°	76.0	139.8	219.8	268.8	284.7
100°	106.7	161.8	238.3	287.3	301.2
102.5°	137.5	185.9	260.5	308.9	322.8
105°	171.5	212.2	282.6	330.5	345.1
107.5°	206.7	241.6	307.9	353.7	364.4
110°	239.2	270.3	335.2	377.6	389.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.0	301.8	361.9	402.0	415.1
115°	312.0	331.2	389.3	428.2	440.5
117.5°	346.8	363.5	415.3	452.8	463.7
120°	382.8	394.2	441.1	478.2	490.4
122.5°	415.8	424.7	469.9	503.4	513.8
125°	448.9	455.8	495.9	529.4	540.5
127.5°	482.6	489.7	522.5	552.5	562.1
130°	514.1	522.7	549.0	579.3	586.8
132.5°	549.3	555.7	576.4	603.0	611.3
135°	578.7	587.1	602.0	629.0	637.3
137.5°	612.4	619.3	627.5	651.9	658.1
140°	642.3	647.9	654.4	675.6	680.5
142.5°	673.0	678.6	680.9	697.6	701.1
145°	700.8	706.2	710.8	719.5	723.1
147.5°	726.9	733.8	736.9	739.7	740.7
150°	753.8	758.4	761.4	763.7	761.4
152.5°	777.5	782.1	786.0	789.0	786.0
155°	801.3	803.6	805.9	809.7	807.4
157.5°	822.0	823.5	825.1	830.4	826.6
160°	840.4	841.9	842.7	847.3	844.2
162.5°	857.3	857.3	858.0	863.4	859.6
165°	871.8	871.1	871.1	876.4	872.6
167.5°	884.9	882.6	882.6	887.9	884.1
170°	894.8	892.5	891.8	897.1	892.5
172.5°	901.7	899.4	898.7	904.0	899.4
175°	907.1	904.8	903.3	908.7	904.0
177.5°	910.2	907.9	906.3	911.0	906.3
180°	908.7	908.7	908.7	908.7	908.7

(END OF REPORT)