

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: P1009577

Luminaire Tested: S122DIP-B865D725UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009577
REPORT IS A COMBINATION OF REPORTS P984926 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB30-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

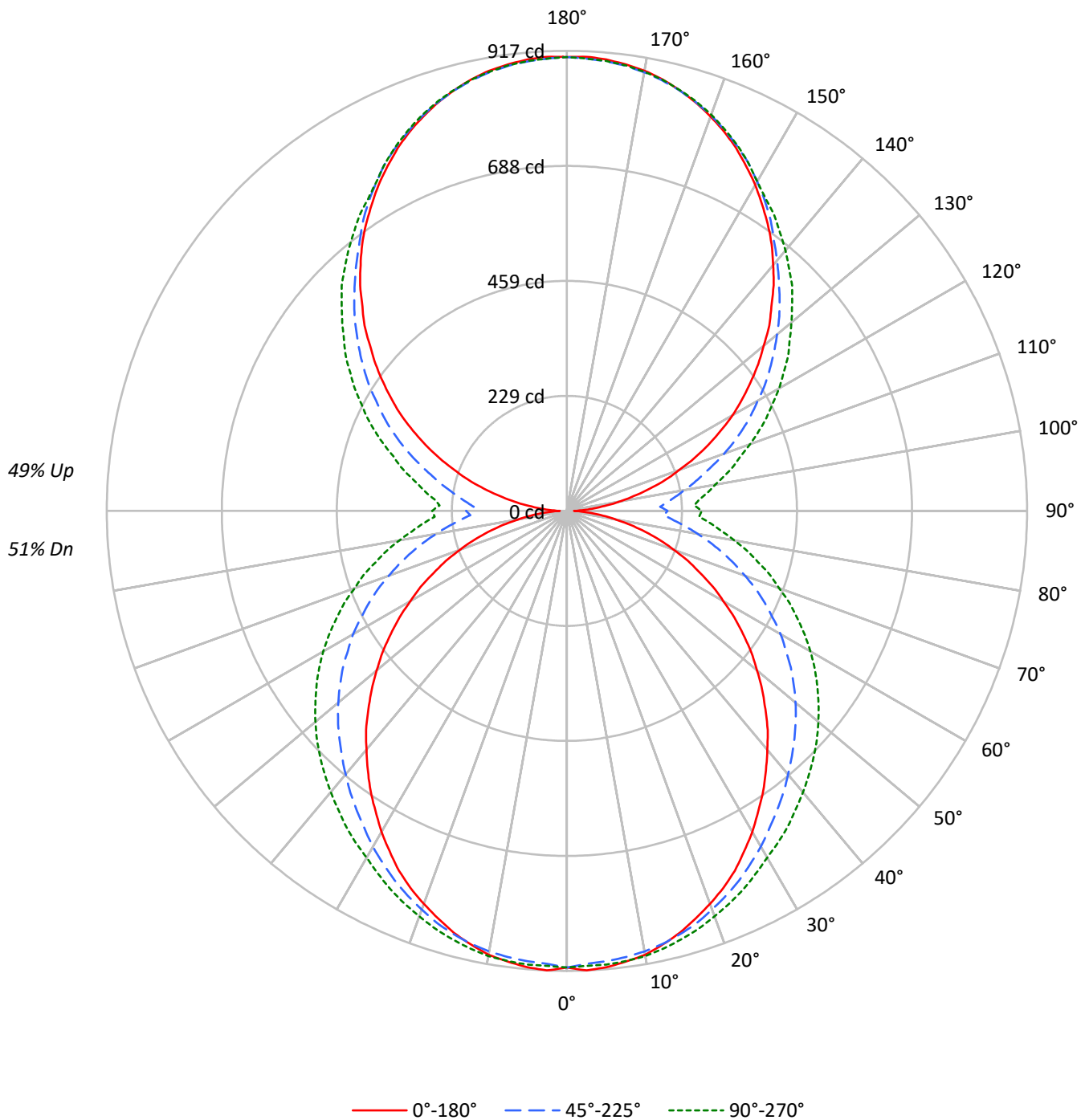
Lumens per Lamp: N/A
Luminaire Lumens: 6005.0 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	14408	14408	14408
5°	14473	13793	13716
10°	14375	13315	13121
15°	14172	12822	12511
20°	13917	12303	11934
25°	13665	11806	11409
30°	13310	11300	10889
35°	12952	10814	10507
40°	12575	10392	10129
45°	12215	10011	9799
50°	11830	9659	9472
55°	11423	9285	9140
60°	10927	8895	8791
65°	10409	8448	8389
70°	9826	7969	7957
75°	9079	7486	7549
80°	7896	6986	7127
85°	6710	6516	6763

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 12215 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.4
10°-20°	247.5	4.1
20°-30°	375.0	6.2
30°-40°	456.6	7.6
40°-50°	491.3	8.2
50°-60°	477.1	7.9
60°-70°	416.7	6.9
70°-80°	320.7	5.3
80°-90°	217.4	3.6
90°-100°	204.1	3.4
100°-110°	286.1	4.8
110°-120°	375.9	6.3
120°-130°	440.2	7.3
130°-140°	466.1	7.8
140°-150°	443.5	7.4
150°-160°	369.7	6.2
160°-170°	245.2	4.1
170°-180°	85.7	1.4
0°-30°	708.7	11.8
0°-40°	1165.3	19.4
0°-60°	2133.7	35.5
0°-90°	3088.4	51.4
90°-120°	866.2	14.4
90°-150°	2216.0	36.9
90°-180°	2917.0	48.6
0°-180°	6005.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	910	910	910	910	910	
5°	913	909	901	909	908	87
15°	871	873	873	885	884	245
25°	792	801	813	828	832	364
35°	682	704	730	758	768	426
45°	559	595	641	682	695	432
55°	429	476	545	592	609	383
65°	293	358	435	489	506	291
75°	162	236	320	377	394	172
85°	48	129	214	269	288	50
90°	14	100	201	252	269	12
95°	50	120	201	251	265	53
105°	171	211	281	329	344	181
115°	311	330	388	426	439	307
125°	447	454	494	527	538	400
135°	576	585	599	626	635	446
145°	698	703	708	716	720	436
155°	798	800	802	806	804	367
165°	868	867	867	873	869	245
175°	903	901	899	905	900	86
180°	905	905	905	905	905	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	910.2	910.2	910.2	910.2	910.2
2.5°	916.8	912.8	903.6	910.2	907.6
5°	912.8	908.9	901.0	908.9	907.6
7.5°	906.2	903.6	897.0	906.2	904.9
10°	898.3	895.7	891.7	902.3	901.0
12.5°	885.1	886.5	883.8	894.4	893.1
15°	870.6	873.3	873.3	885.1	883.8
17.5°	852.2	857.4	861.4	873.3	873.3
20°	833.7	840.3	845.6	860.1	860.1
22.5°	813.9	821.8	829.7	844.2	846.9
25°	791.5	800.7	812.6	828.4	832.4
27.5°	765.1	779.6	792.8	812.6	815.2
30°	738.7	755.9	773.0	794.1	798.1
32.5°	709.7	729.5	750.6	775.6	783.6
35°	682.0	704.4	729.5	758.5	767.7
37.5°	651.6	676.7	708.4	740.0	749.3
40°	621.3	650.3	685.9	720.2	732.1
42.5°	592.3	621.3	663.5	701.8	713.6
45°	559.3	594.9	641.1	682.0	695.2
47.5°	527.7	565.9	618.7	660.9	675.4
50°	494.7	535.6	594.9	639.8	654.3
52.5°	463.0	506.5	569.9	616.0	631.9
55°	428.7	476.2	544.8	592.3	609.4
57.5°	395.7	448.5	517.1	568.5	585.7
60°	360.1	416.8	492.0	542.2	560.6
62.5°	328.5	387.8	463.0	517.1	534.2
65°	292.8	357.5	435.3	489.4	506.5
67.5°	261.2	328.5	407.6	461.7	480.2
70°	226.9	295.5	377.3	434.0	449.8
72.5°	195.2	266.5	349.6	405.0	424.8
75°	162.3	236.1	320.5	377.3	394.4
77.5°	130.6	207.1	292.8	349.6	368.0
80°	98.9	179.4	265.1	320.5	339.0
82.5°	72.6	151.7	238.8	294.2	311.3
85°	47.5	129.3	213.7	269.1	287.6
87.5°	29.0	108.2	192.6	246.7	263.8
90°	14.0	99.6	200.8	252.1	268.7
92.5°	28.7	104.7	186.0	238.1	253.9
95°	50.3	119.9	200.6	250.7	265.0
97.5°	75.6	139.3	218.8	267.6	283.4
100°	106.2	161.1	237.3	286.1	299.8
102.5°	136.9	185.0	259.4	307.6	321.4
105°	170.7	211.3	281.4	329.1	343.6
107.5°	205.9	240.6	306.5	352.2	362.9
110°	238.2	269.1	333.7	375.9	388.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	274.8	300.5	360.4	400.3	413.3
115°	310.7	329.8	387.5	426.4	438.6
117.5°	345.3	361.9	413.5	450.8	461.7
120°	381.2	392.5	439.2	476.1	488.3
122.5°	414.0	422.9	467.9	501.2	511.6
125°	446.9	453.8	493.8	527.1	538.2
127.5°	480.5	487.6	520.2	550.1	559.7
130°	511.8	520.5	546.6	576.8	584.3
132.5°	547.0	553.3	573.9	600.3	608.6
135°	576.2	584.6	599.3	626.3	634.6
137.5°	609.8	616.7	624.8	649.1	655.3
140°	639.6	645.1	651.6	672.7	677.6
142.5°	670.1	675.7	678.0	694.5	698.1
145°	697.8	703.2	707.7	716.4	720.0
147.5°	723.8	730.6	733.7	736.5	737.5
150°	750.5	755.1	758.1	760.4	758.1
152.5°	774.2	778.7	782.6	785.6	782.6
155°	797.8	800.1	802.4	806.2	803.9
157.5°	818.4	820.0	821.5	826.8	823.0
160°	836.8	838.3	839.1	843.6	840.6
162.5°	853.6	853.6	854.3	859.7	855.9
165°	868.1	867.3	867.3	872.7	868.8
167.5°	881.1	878.8	878.8	884.1	880.3
170°	891.0	888.7	887.9	893.3	888.7
172.5°	897.8	895.6	894.8	900.1	895.6
175°	903.2	900.9	899.4	904.7	900.1
177.5°	906.2	904.0	902.4	907.0	902.4
180°	904.7	904.7	904.7	904.7	904.7

(END OF REPORT)