

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: P1009578

Luminaire Tested: S122DIP-B865D725UB30-4F0-XX-W2A-D4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009578
REPORT IS A COMBINATION OF REPORTS P984927 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-D4
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

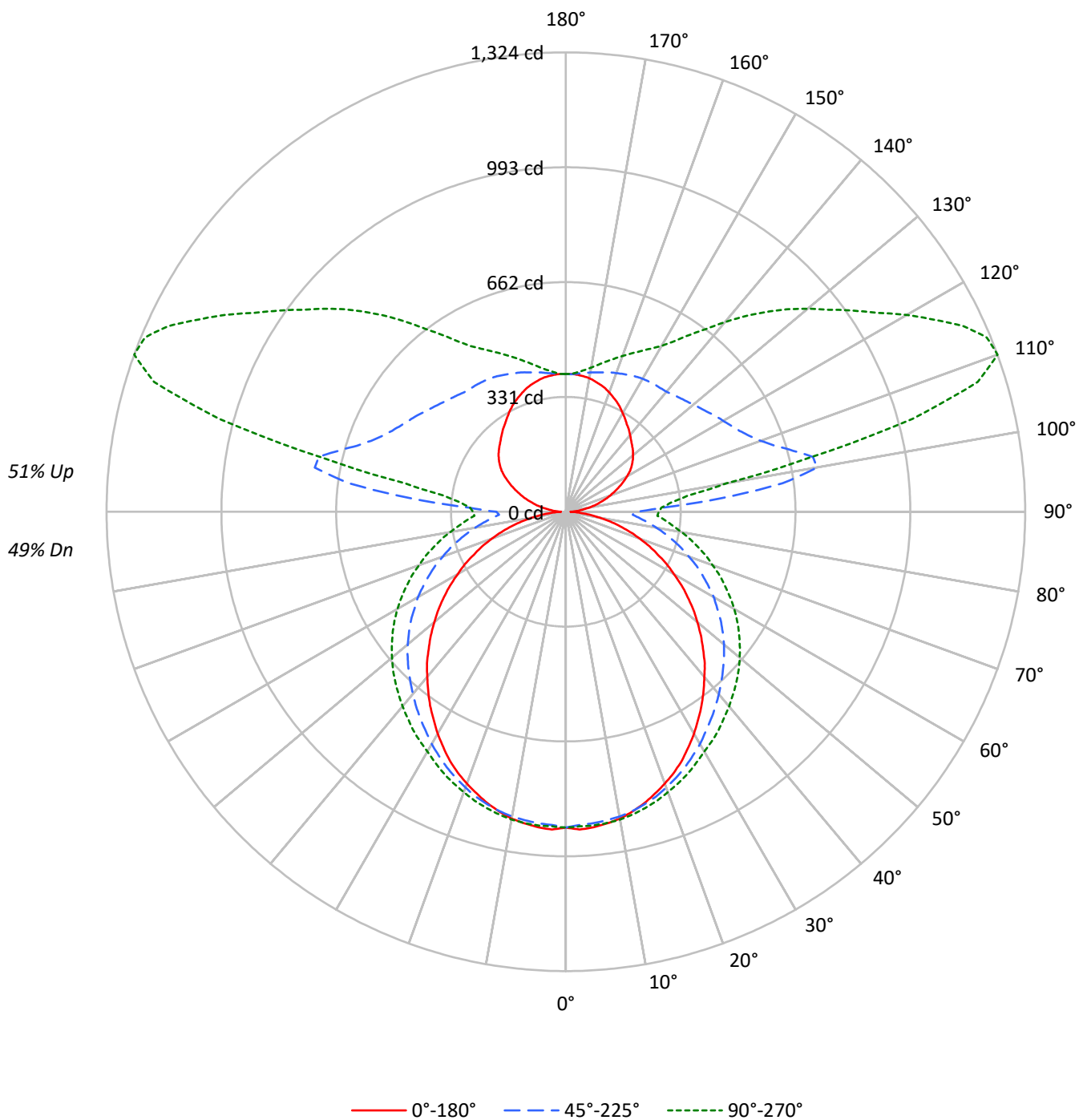
Lumens per Lamp: N/A
Luminaire Lumens: 6243.2 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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°	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	4.0
20°-30°	375.0	6.0
30°-40°	456.6	7.3
40°-50°	491.3	7.9
50°-60°	477.1	7.6
60°-70°	416.7	6.7
70°-80°	320.7	5.1
80°-90°	217.3	3.5
90°-100°	309.1	5.0
100°-110°	652.3	10.4
110°-120°	643.3	10.3
120°-130°	510.0	8.2
130°-140°	394.6	6.3
140°-150°	288.3	4.6
150°-160°	200.7	3.2
160°-170°	118.2	1.9
170°-180°	38.4	0.6
0°-30°	708.7	11.4
0°-40°	1165.3	18.7
0°-60°	2133.7	34.2
0°-90°	3088.4	49.5
90°-120°	1604.6	25.7
90°-150°	2797.5	44.8
90°-180°	3155.0	50.5
0°-180°	6243.2	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	200	252	268	11
95°	37	138	451	315	305	36
105°	100	185	679	1171	1034	106
115°	169	227	552	1095	1265	168
125°	232	274	500	872	1011	206
135°	270	322	464	707	814	209
145°	307	353	447	563	622	193
155°	349	377	434	491	511	161
165°	380	392	416	441	448	107
175°	396	397	400	405	404	38
180°	397	397	397	397	397	

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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	100.0	200.1	251.7	267.9
92.5°	23.4	118.1	279.9	267.9	276.1
95°	37.3	138.2	450.9	314.8	304.7
97.5°	48.9	152.6	630.3	418.0	352.9
100°	68.0	164.1	735.0	632.2	468.5
102.5°	84.2	175.1	729.6	933.6	717.5
105°	99.7	185.4	679.1	1170.7	1034.4
107.5°	118.1	195.6	631.7	1249.9	1244.6
110°	135.1	206.2	597.8	1224.8	1324.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	151.9	217.3	571.9	1166.4	1313.3
115°	169.4	227.1	552.4	1095.4	1265.3
117.5°	186.4	238.2	537.1	1028.6	1198.3
120°	203.2	248.9	523.8	966.5	1134.8
122.5°	219.3	261.4	512.9	917.2	1066.5
125°	231.6	273.6	499.9	871.8	1010.7
127.5°	243.1	286.4	489.6	830.2	956.6
130°	253.0	299.0	480.2	789.7	910.2
132.5°	262.2	311.2	471.5	748.0	863.6
135°	270.0	321.9	464.1	707.1	813.9
137.5°	278.4	331.1	457.5	665.8	764.4
140°	288.3	338.2	451.5	628.3	713.4
142.5°	298.3	345.0	448.9	593.3	663.6
145°	306.9	352.7	447.3	563.2	622.2
147.5°	317.6	358.8	445.1	537.2	583.2
150°	328.3	364.9	442.8	519.1	551.9
152.5°	338.9	371.0	438.9	505.0	529.8
155°	348.9	376.8	434.4	491.2	510.7
157.5°	357.3	381.3	429.8	478.2	493.9
160°	365.7	385.9	425.2	465.3	477.9
162.5°	374.1	389.4	421.4	453.1	462.6
165°	380.2	391.6	416.0	441.2	448.1
167.5°	385.5	393.9	411.5	430.6	434.4
170°	390.9	395.0	407.6	420.6	422.2
172.5°	393.9	396.2	403.1	411.8	412.2
175°	396.2	396.6	400.0	405.0	403.8
177.5°	397.7	397.0	397.0	400.0	397.7
180°	397.0	397.0	397.0	397.0	397.0

(END OF REPORT)