

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: P1009532

Luminaire Tested: S122DIP-B865D530UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009532
REPORT IS A COMBINATION OF REPORTS P984866 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB30-4F0-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

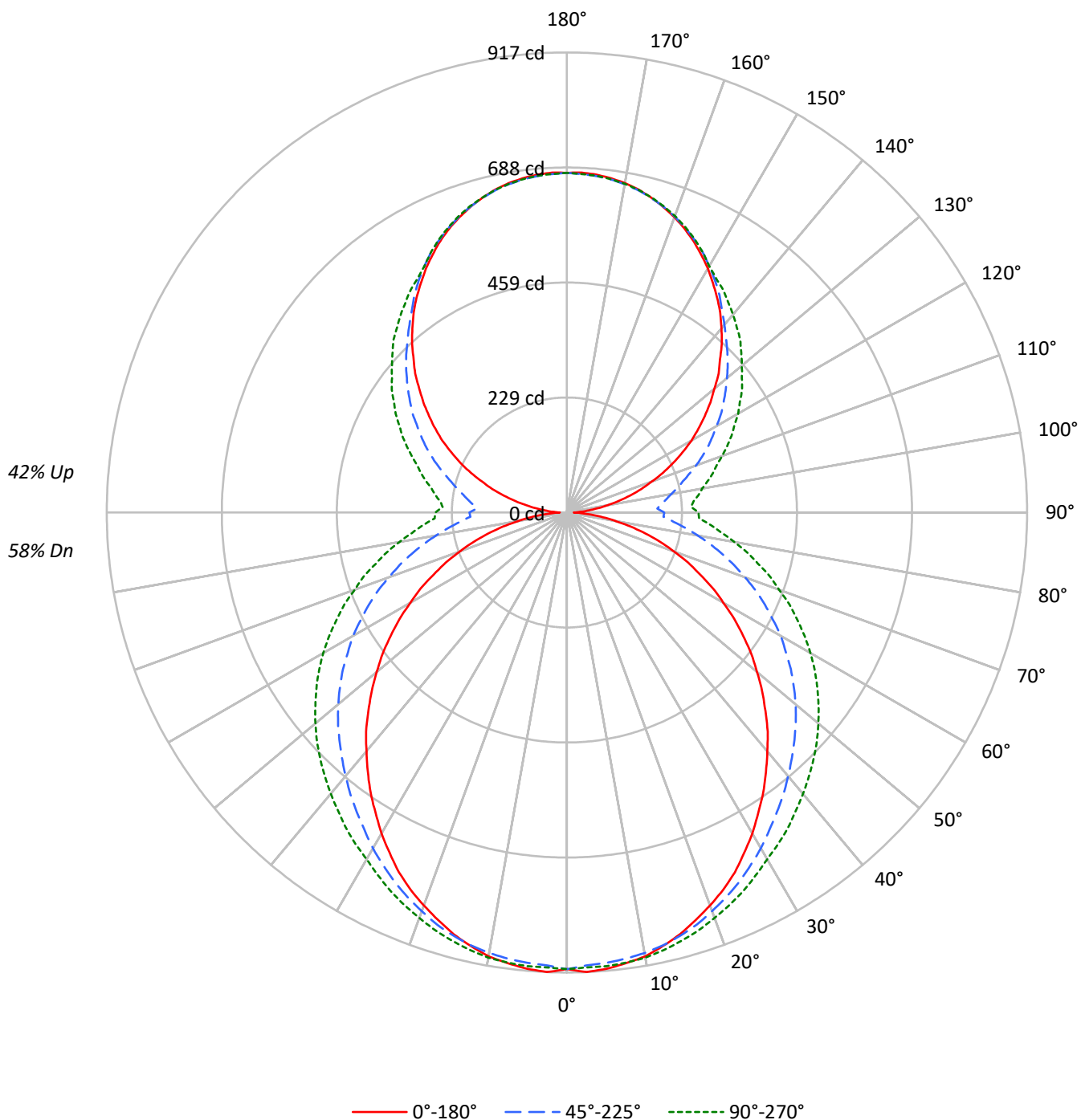
Lumens per Lamp: N/A
Luminaire Lumens: 5368.0 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62.2
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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63
1	98	93	88	84	91	86	82	79	74	71	68	63	61	59	53	51	50
2	88	80	73	67	82	74	68	63	64	59	55	54	51	48	46	43	41
3	80	70	62	55	74	65	58	52	56	50	46	48	43	40	40	37	34
4	73	61	53	46	68	57	50	44	49	43	38	42	37	34	35	32	29
5	67	54	46	39	62	51	43	37	44	38	33	38	33	29	32	28	25
6	62	49	40	34	57	46	38	32	39	33	28	34	29	25	29	25	22
7	57	44	35	30	53	41	33	28	36	30	25	31	26	22	26	22	19
8	53	40	32	26	49	37	30	25	33	26	22	28	23	20	24	20	17
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	17	14

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	1.6
10°-20°	247.5	4.6
20°-30°	375.0	7.0
30°-40°	456.6	8.5
40°-50°	491.3	9.2
50°-60°	477.1	8.9
60°-70°	416.7	7.8
70°-80°	320.7	6.0
80°-90°	216.7	4.0
90°-100°	190.1	3.5
100°-110°	241.4	4.5
110°-120°	299.3	5.6
120°-130°	339.5	6.3
130°-140°	353.1	6.6
140°-150°	332.7	6.2
150°-160°	276.7	5.2
160°-170°	183.5	3.4
170°-180°	64.1	1.2
0°-30°	708.7	13.2
0°-40°	1165.3	21.7
0°-60°	2133.7	39.7
0°-90°	3087.8	57.5
90°-120°	730.8	13.6
90°-150°	1755.9	32.7
90°-180°	2280.0	42.5
0°-180°	5368.0	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	97	194	246	262	11
95°	40	108	188	238	253	41
105°	130	170	239	286	301	137
115°	234	252	310	349	362	231
125°	335	340	381	415	426	300
135°	432	438	452	479	488	334
145°	522	526	530	538	542	327
155°	597	599	600	603	602	275
165°	650	649	649	653	650	183
175°	676	674	673	677	674	64
180°	677	677	677	677	677	

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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°	13.8	97.1	194.1	245.8	262.1
92.5°	24.5	98.9	180.0	232.0	247.8
95°	40.3	108.0	188.3	238.4	253.1
97.5°	58.9	120.9	199.6	248.4	264.2
100°	81.8	135.1	210.8	259.6	273.5
102.5°	104.5	151.4	225.0	273.1	287.0
105°	129.5	169.5	239.1	286.5	301.0
107.5°	155.7	189.7	255.6	301.1	312.7
110°	179.6	209.4	274.0	316.2	329.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.0	231.5	291.7	332.1	345.5
115°	233.9	251.8	309.9	349.0	361.8
117.5°	259.4	274.5	327.0	364.9	376.4
120°	286.3	296.0	344.3	381.2	394.0
122.5°	310.8	317.9	363.8	397.7	408.4
125°	335.2	340.3	380.9	414.8	426.0
127.5°	360.3	365.3	398.6	429.3	439.5
130°	383.7	389.9	416.4	447.0	455.2
132.5°	410.0	414.4	434.8	462.2	471.1
135°	431.6	437.9	452.2	479.3	488.2
137.5°	456.7	461.8	469.6	494.1	501.0
140°	479.0	482.8	488.3	509.4	515.1
142.5°	501.8	505.7	507.4	523.8	528.1
145°	522.3	526.3	529.7	538.2	542.5
147.5°	541.7	546.8	549.1	551.6	553.3
150°	561.7	565.1	567.4	569.1	567.4
152.5°	579.4	582.8	585.7	588.0	585.7
155°	597.1	598.8	600.5	603.4	601.7
157.5°	612.5	613.7	614.8	618.8	616.0
160°	626.3	627.4	628.0	631.4	629.1
162.5°	638.8	638.8	639.4	643.4	640.5
165°	649.7	649.1	649.1	653.1	650.3
167.5°	659.4	657.7	657.7	661.7	658.8
170°	666.8	665.1	664.5	668.5	665.1
172.5°	672.0	670.3	669.7	673.7	670.3
175°	676.0	674.3	673.1	677.1	673.7
177.5°	678.3	676.5	675.4	678.8	675.4
180°	677.1	677.1	677.1	677.1	677.1

(END OF REPORT)