

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P997929

Luminaire Tested: SA2XXDIP-B1005D530UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P997929
REPORT IS A COMBINATION OF REPORTS P983666 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B1005D530UB30-4F0-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

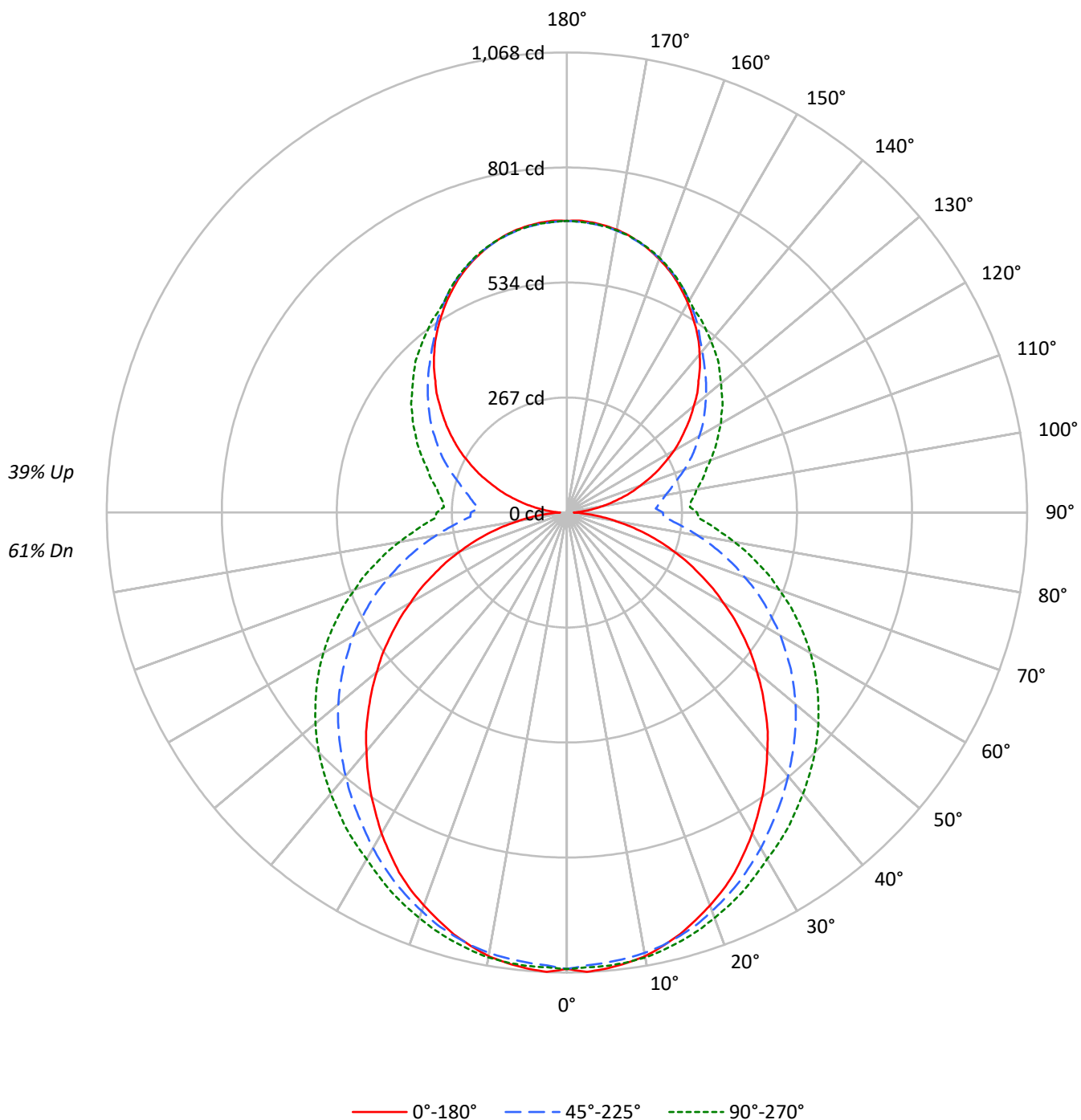
Lumens per Lamp: N/A
Luminaire Lumens: 5939.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	98	93	88	84	92	87	83	79	76	72	70	65	63	61	55	54	52
2	89	80	73	67	82	75	69	64	65	60	56	56	52	49	48	45	42
3	81	70	62	55	75	65	58	52	57	51	46	49	45	41	42	38	35
4	73	62	53	46	68	58	50	44	50	44	39	43	38	34	37	33	30
5	67	55	46	39	62	51	43	37	45	38	33	39	34	30	33	29	26
6	62	49	40	34	57	46	38	32	40	34	29	35	30	26	30	26	22
7	57	44	36	30	53	41	34	28	36	30	25	32	26	23	27	23	20
8	53	40	32	26	49	38	30	25	33	27	22	29	24	20	25	21	18
9	49	37	29	23	46	34	27	22	30	24	20	27	22	18	23	19	16
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16776	16776	16776
5°	16852	16061	15970
10°	16739	15504	15278
15°	16503	14928	14568
20°	16206	14325	13895
25°	15911	13746	13284
30°	15499	13158	12680
35°	15081	12591	12236
40°	14643	12101	11794
45°	14224	11657	11410
50°	13774	11247	11030
55°	13302	10812	10643
60°	12723	10358	10237
65°	12122	9838	9768
70°	11442	9278	9266
75°	10567	8720	8791
80°	9197	8135	8300
85°	7811	7586	7873

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14224 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.5	1.7
10°-20°	288.2	4.9
20°-30°	436.6	7.4
30°-40°	531.7	9.0
40°-50°	572.0	9.6
50°-60°	555.5	9.4
60°-70°	485.2	8.2
70°-80°	373.4	6.3
80°-90°	252.0	4.2
90°-100°	214.4	3.6
100°-110°	259.2	4.4
110°-120°	311.0	5.2
120°-130°	346.0	5.8
130°-140°	355.8	6.0
140°-150°	333.1	5.6
150°-160°	276.7	4.7
160°-170°	183.5	3.1
170°-180°	64.1	1.1
0°-30°	825.2	13.9
0°-40°	1356.9	22.8
0°-60°	2484.5	41.8
0°-90°	3595.1	60.5
90°-120°	784.6	13.2
90°-150°	1819.6	30.6
90°-180°	2344.0	39.5
0°-180°	5939.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1063	1058	1049	1058	1057	101
15°	1014	1017	1017	1031	1029	286
25°	922	932	946	965	969	424
35°	794	820	849	883	894	496
45°	651	693	746	794	810	503
55°	499	554	634	690	710	447
65°	341	416	507	570	590	339
75°	189	275	373	439	459	200
85°	55	150	249	313	335	58
90°	16	112	223	283	302	13
95°	42	120	213	272	289	43
105°	131	177	258	313	330	138
115°	235	255	323	368	384	232
125°	336	341	388	428	441	300
135°	432	438	455	486	497	334
145°	522	526	530	540	545	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°	1059.8	1059.8	1059.8	1059.8	1059.8
2.5°	1067.5	1062.9	1052.2	1059.8	1056.8
5°	1062.9	1058.3	1049.1	1058.3	1056.8
7.5°	1055.2	1052.2	1044.5	1055.2	1053.7
10°	1046.0	1042.9	1038.3	1050.6	1049.1
12.5°	1030.7	1032.2	1029.1	1041.4	1039.9
15°	1013.8	1016.8	1016.8	1030.7	1029.1
17.5°	992.3	998.4	1003.0	1016.8	1016.8
20°	970.8	978.4	984.6	1001.5	1001.5
22.5°	947.7	956.9	966.1	983.0	986.1
25°	921.6	932.4	946.2	964.6	969.2
27.5°	890.9	907.8	923.1	946.2	949.3
30°	860.2	880.1	900.1	924.7	929.3
32.5°	826.4	849.4	874.0	903.2	912.4
35°	794.1	820.2	849.4	883.2	894.0
37.5°	758.8	788.0	824.8	861.7	872.5
40°	723.5	757.3	798.7	838.7	852.5
42.5°	689.7	723.5	772.6	817.2	831.0
45°	651.3	692.7	746.5	794.1	809.5
47.5°	614.4	658.9	720.4	769.5	786.4
50°	576.0	623.6	692.7	745.0	761.9
52.5°	539.1	589.8	663.6	717.3	735.7
55°	499.2	554.5	634.4	689.7	709.6
57.5°	460.8	522.2	602.1	662.0	682.0
60°	419.3	485.4	572.9	631.3	652.8
62.5°	382.5	451.6	539.1	602.1	622.1
65°	341.0	416.3	506.9	569.9	589.8
67.5°	304.1	382.5	474.6	537.6	559.1
70°	264.2	344.1	439.3	505.3	523.8
72.5°	227.3	310.3	407.0	471.6	494.6
75°	188.9	274.9	373.3	439.3	459.3
77.5°	152.1	241.2	341.0	407.0	428.5
80°	115.2	208.9	308.7	373.3	394.8
82.5°	84.5	176.6	278.0	342.5	362.5
85°	55.3	150.5	248.8	313.3	334.8
87.5°	33.8	126.0	224.3	287.2	307.2
90°	16.0	111.8	222.8	283.1	302.0
92.5°	26.4	112.3	206.6	267.1	285.6
95°	42.0	119.9	213.2	271.6	288.8
97.5°	60.5	131.7	223.0	279.8	298.3
100°	83.4	144.7	232.5	289.3	305.6
102.5°	105.8	159.9	245.1	301.0	317.3
105°	130.6	176.8	257.8	312.8	329.7
107.5°	156.8	195.9	272.7	325.6	339.6
110°	180.4	214.6	289.8	339.0	354.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.8	235.8	306.0	353.3	369.1
115°	234.7	255.0	323.0	368.5	383.7
117.5°	260.0	276.9	338.5	382.9	396.5
120°	286.9	297.6	354.5	397.5	412.7
122.5°	311.4	318.7	372.7	412.4	425.1
125°	335.7	340.8	388.2	428.0	441.2
127.5°	360.8	365.5	404.7	440.8	452.9
130°	384.2	390.1	421.2	457.0	466.9
132.5°	410.5	414.6	438.3	470.7	481.3
135°	431.8	438.1	454.6	486.3	496.8
137.5°	456.9	462.0	470.9	499.5	508.0
140°	479.2	482.8	488.8	513.3	520.3
142.5°	502.0	505.7	507.4	526.4	531.8
145°	522.3	526.3	529.7	539.5	544.9
147.5°	541.7	546.8	549.1	551.8	554.1
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

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.91	16.93	16.75	17.81	18.92	18.98	20.01	19.83	20.89	22.00
	3H	17.38	18.31	18.24	19.20	20.33	21.58	22.51	22.44	23.40	24.54
	4H	17.86	18.75	18.73	19.64	20.78	22.84	23.73	23.72	24.62	25.77
	6H	18.15	18.97	19.04	19.88	21.03	24.14	24.97	25.03	25.87	27.03
	8H	18.21	19.00	19.11	19.92	21.08	24.81	25.60	25.70	26.52	27.67
	12H	18.24	18.99	19.14	19.90	21.09	25.54	26.29	26.44	27.21	28.39
4H	2H	16.97	17.86	17.85	18.76	19.90	19.33	20.22	20.21	21.11	22.25
	3H	18.69	19.45	19.59	20.37	21.53	22.13	22.89	23.02	23.81	24.97
	4H	19.32	20.02	20.22	20.94	22.12	23.55	24.25	24.46	25.17	26.35
	6H	19.75	20.35	20.66	21.30	22.48	25.03	25.64	25.95	26.58	27.77
	8H	19.86	20.43	20.78	21.37	22.57	25.79	26.36	26.71	27.30	28.50
	12H	19.91	20.43	20.85	21.39	22.59	26.63	27.15	27.57	28.11	29.31
8H	4H	20.13	20.70	21.04	21.64	22.83	23.71	24.28	24.63	25.22	26.42
	6H	20.76	21.25	21.71	22.23	23.42	25.35	25.83	26.29	26.81	28.01
	8H	20.99	21.42	21.94	22.39	23.60	26.24	26.67	27.19	27.64	28.85
	12H	21.13	21.51	22.09	22.48	23.74	27.24	27.63	28.20	28.59	29.85
12H	4H	20.33	20.85	21.27	21.81	23.01	23.69	24.21	24.63	25.17	26.38
	6H	21.10	21.53	22.05	22.50	23.72	25.37	25.81	26.33	26.78	27.99
	8H	21.41	21.80	22.37	22.76	24.02	26.31	26.70	27.27	27.66	28.92