

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: P998966

Luminaire Tested: SA2XXDIP-B675D925UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998966
REPORT IS A COMBINATION OF REPORTS P984712 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B675D925UB50-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

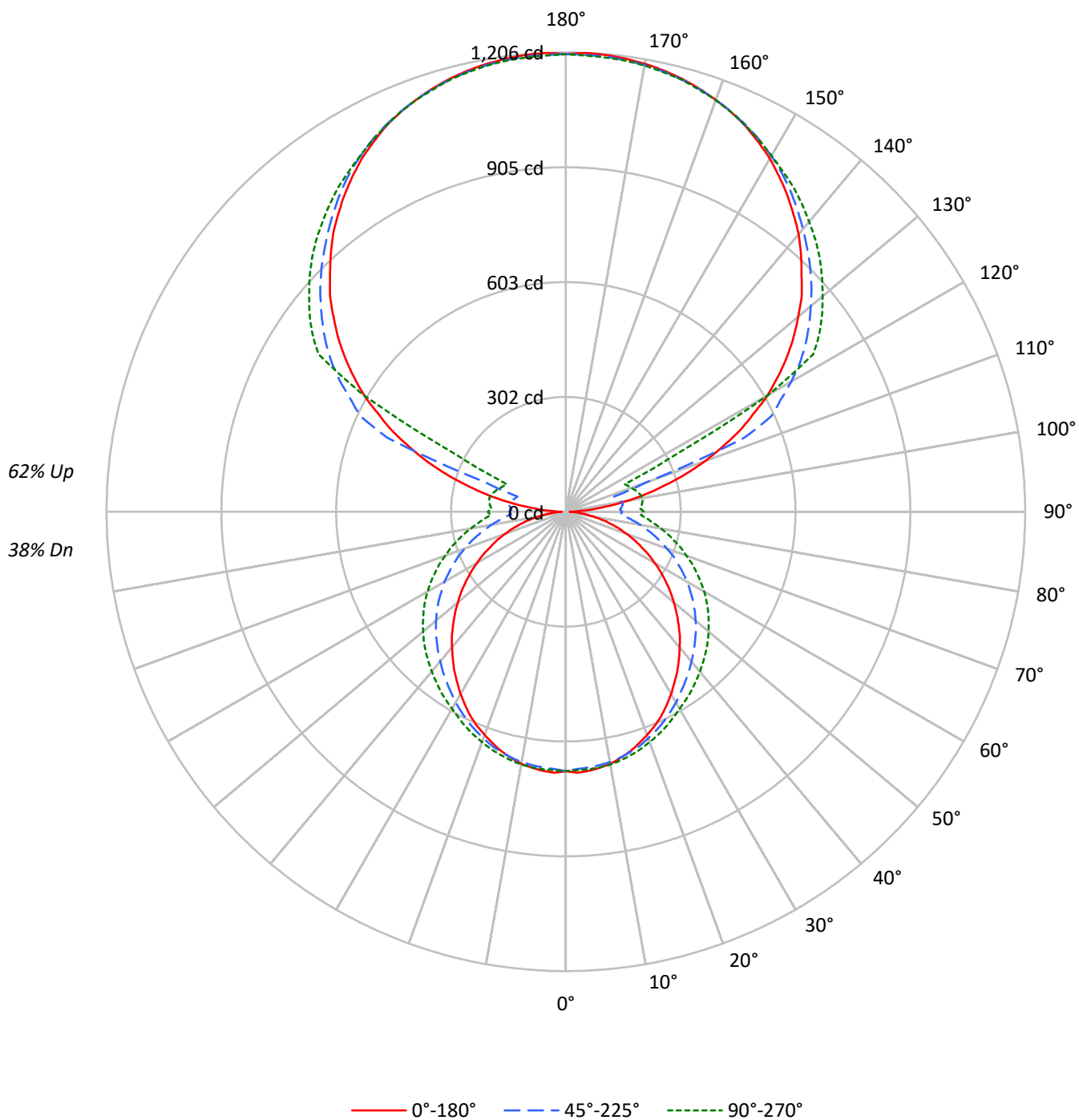
Lumens per Lamp: N/A
Luminaire Lumens: 6122.0 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 64.4
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
RCR																	
0	104	104	104	104	95	95	95	95	77	77	77		60	60	60		45
1	94	89	85	81	85	81	77	74	65	63	60		51	49	48		38
2	85	77	71	65	77	70	64	60	57	53	49		44	41	39		33
3	77	67	60	54	70	61	55	49	49	45	41		39	35	32		29
4	70	59	51	45	63	54	47	41	44	38	34		34	30	27		25
5	64	53	44	38	58	48	41	35	39	33	29		30	27	23		23
6	59	47	39	33	53	43	36	30	35	29	25		27	23	20		20
7	55	42	34	29	49	39	31	26	31	26	22		25	21	18		19
8	51	38	30	25	46	35	28	23	29	23	19		23	19	16		17
9	47	35	27	22	42	32	25	21	26	21	17		21	17	14		16
10	44	32	25	20	40	29	23	18	24	19	15		19	15	13		15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10778	10778	10778
5°	10827	10318	10260
10°	10754	9961	9815
15°	10602	9592	9359
20°	10410	9202	8927
25°	10222	8832	8535
30°	9957	8454	8146
35°	9689	8089	7860
40°	9407	7774	7577
45°	9138	7489	7329
50°	8848	7225	7085
55°	8545	6945	6838
60°	8175	6655	6577
65°	7789	6319	6275
70°	7349	5960	5953
75°	6791	5601	5646
80°	5908	5226	5331
85°	5015	4876	5058

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9138 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.1
10°-20°	185.1	3.0
20°-30°	280.5	4.6
30°-40°	341.6	5.6
40°-50°	367.5	6.0
50°-60°	356.9	5.8
60°-70°	311.7	5.1
70°-80°	239.9	3.9
80°-90°	162.8	2.7
90°-100°	150.5	2.5
100°-110°	228.6	3.7
110°-120°	445.1	7.3
120°-130°	679.4	11.1
130°-140°	702.5	11.5
140°-150°	643.4	10.5
150°-160°	515.6	8.4
160°-170°	332.2	5.4
170°-180°	114.3	1.9
0°-30°	530.2	8.7
0°-40°	871.7	14.2
0°-60°	1596.1	26.1
0°-90°	2310.5	37.7
90°-120°	824.2	13.5
90°-150°	2849.4	46.5
90°-180°	3812.0	62.3
0°-180°	6122.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	681	681	681	681	681	
5°	683	680	674	680	679	65
15°	651	653	653	662	661	183
25°	592	599	608	620	623	272
35°	510	527	546	567	574	319
45°	418	445	480	510	520	323
55°	321	356	408	443	456	287
65°	219	267	326	366	379	218
75°	121	177	240	282	295	128
85°	36	97	160	201	215	37
90°	11	78	148	191	205	10
95°	64	82	147	189	200	73
105°	269	324	138	182	196	288
115°	504	529	596	223	171	496
125°	709	720	768	801	812	632
135°	876	889	907	936	943	677
145°	1014	1014	1028	1040	1041	635
155°	1117	1109	1120	1125	1118	515
165°	1177	1172	1174	1180	1174	333
175°	1204	1198	1200	1206	1197	115
180°	1201	1201	1201	1201	1201	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	680.9	680.9	680.9	680.9	680.9
2.5°	685.8	682.9	675.9	680.9	678.9
5°	682.9	679.9	674.0	679.9	678.9
7.5°	677.9	675.9	671.0	677.9	676.9
10°	672.0	670.0	667.1	675.0	674.0
12.5°	662.1	663.1	661.1	669.0	668.1
15°	651.3	653.3	653.3	662.1	661.1
17.5°	637.5	641.4	644.4	653.3	653.3
20°	623.6	628.6	632.5	643.4	643.4
22.5°	608.8	614.8	620.7	631.5	633.5
25°	592.1	599.0	607.9	619.7	622.7
27.5°	572.3	583.2	593.1	607.9	609.8
30°	552.6	565.4	578.3	594.0	597.0
32.5°	530.9	545.7	561.5	580.2	586.1
35°	510.2	526.9	545.7	567.4	574.3
37.5°	487.5	506.2	529.9	553.6	560.5
40°	464.8	486.5	513.1	538.8	547.7
42.5°	443.1	464.8	496.4	525.0	533.8
45°	418.4	445.0	479.6	510.2	520.0
47.5°	394.7	423.3	462.8	494.4	505.2
50°	370.0	400.6	445.0	478.6	489.4
52.5°	346.4	378.9	426.3	460.8	472.7
55°	320.7	356.2	407.5	443.1	455.9
57.5°	296.0	335.5	386.8	425.3	438.1
60°	269.4	311.8	368.1	405.6	419.4
62.5°	245.7	290.1	346.4	386.8	399.6
65°	219.1	267.4	325.6	366.1	378.9
67.5°	195.4	245.7	304.9	345.4	359.2
70°	169.7	221.0	282.2	324.7	336.5
72.5°	146.0	199.3	261.5	302.9	317.7
75°	121.4	176.6	239.8	282.2	295.0
77.5°	97.7	154.9	219.1	261.5	275.3
80°	74.0	134.2	198.3	239.8	253.6
82.5°	54.3	113.5	178.6	220.1	232.9
85°	35.5	96.7	159.9	201.3	215.1
87.5°	21.7	80.9	144.1	184.5	197.4
90°	10.8	77.5	147.7	191.4	205.1
92.5°	30.6	79.5	142.3	182.5	195.2
95°	64.4	82.1	147.4	189.2	200.2
97.5°	108.6	79.7	150.9	190.0	202.7
100°	160.8	78.2	148.2	191.7	204.2
102.5°	217.1	248.0	143.1	188.1	201.6
105°	269.2	323.9	137.9	182.0	196.4
107.5°	330.9	376.3	132.8	175.8	190.2
110°	389.0	427.0	224.1	168.8	183.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	444.6	476.1	506.7	163.6	177.1
115°	503.7	529.4	595.5	222.7	171.0
117.5°	554.1	579.4	635.6	540.9	323.0
120°	611.5	628.4	683.6	721.6	615.2
122.5°	660.2	675.0	729.0	760.8	770.5
125°	708.7	720.0	768.1	800.8	812.3
127.5°	753.9	765.1	804.7	838.1	847.9
130°	796.5	809.4	839.7	872.9	880.0
132.5°	840.0	850.3	874.6	905.2	912.2
135°	875.5	889.4	907.1	936.5	942.7
137.5°	913.7	924.2	937.8	965.3	969.5
140°	951.1	957.1	968.6	992.3	993.8
142.5°	982.4	987.5	998.8	1017.5	1018.2
145°	1014.4	1013.6	1028.3	1040.3	1041.0
147.5°	1043.1	1040.5	1055.3	1060.6	1060.1
150°	1070.9	1064.9	1078.8	1084.0	1079.6
152.5°	1094.4	1087.5	1100.5	1105.7	1099.6
155°	1117.0	1109.2	1119.6	1124.8	1117.9
157.5°	1135.3	1128.3	1136.1	1142.2	1135.3
160°	1150.9	1145.7	1150.9	1156.1	1150.0
162.5°	1164.8	1159.6	1164.0	1170.0	1162.2
165°	1177.0	1171.8	1174.4	1180.5	1174.4
167.5°	1186.6	1181.3	1183.9	1190.0	1182.2
170°	1194.4	1189.2	1190.9	1197.0	1189.2
172.5°	1199.6	1194.4	1196.1	1202.2	1194.4
175°	1203.9	1197.9	1199.6	1205.7	1197.0
177.5°	1205.7	1199.6	1200.5	1206.5	1198.7
180°	1201.3	1201.3	1201.3	1201.3	1201.3

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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	12.23	13.03	13.28	14.09	15.52	15.31	16.11	16.36	17.16	18.60
	3H	13.69	14.41	14.75	15.48	16.93	17.90	18.61	18.95	19.68	21.13
	4H	14.16	14.85	15.23	15.92	17.37	19.15	19.83	20.21	20.90	22.35
	6H	14.45	15.08	15.52	16.15	17.62	20.44	21.07	21.52	22.14	23.61
	8H	14.50	15.11	15.58	16.19	17.66	21.10	21.70	22.18	22.79	24.25
	12H	14.52	15.09	15.60	16.17	17.66	21.82	22.39	22.91	23.48	24.96
4H	2H	13.28	13.96	14.35	15.03	16.49	15.63	16.32	16.71	17.39	18.84
	3H	14.98	15.56	16.06	16.65	18.12	18.42	19.00	19.50	20.09	21.56
	4H	15.60	16.13	16.69	17.22	18.71	19.83	20.37	20.92	21.45	22.94
	6H	16.01	16.47	17.11	17.58	19.07	21.30	21.76	22.39	22.87	24.35
	8H	16.12	16.55	17.21	17.65	19.15	22.05	22.49	23.15	23.59	25.09
	12H	16.16	16.55	17.27	17.67	19.17	22.88	23.27	23.99	24.39	25.89
8H	4H	16.39	16.82	17.48	17.92	19.42	19.97	20.41	21.07	21.51	23.01
	6H	17.02	17.38	18.13	18.52	20.02	21.60	21.96	22.72	23.10	24.60
	8H	17.24	17.56	18.36	18.68	20.20	22.49	22.81	23.61	23.93	25.45
	12H	17.37	17.65	18.49	18.77	20.32	23.48	23.76	24.61	24.88	26.44
12H	4H	16.58	16.97	17.69	18.09	19.59	19.94	20.34	21.06	21.45	22.96
	6H	17.35	17.67	18.47	18.79	20.31	21.62	21.94	22.75	23.07	24.58
	8H	17.65	17.93	18.78	19.05	20.61	22.55	22.83	23.68	23.95	25.50