

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: P998962

Luminaire Tested: SA2XXDIP-B675D925UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P998962
REPORT IS A COMBINATION OF REPORTS P984708 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXDIP-B675D925UB40-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

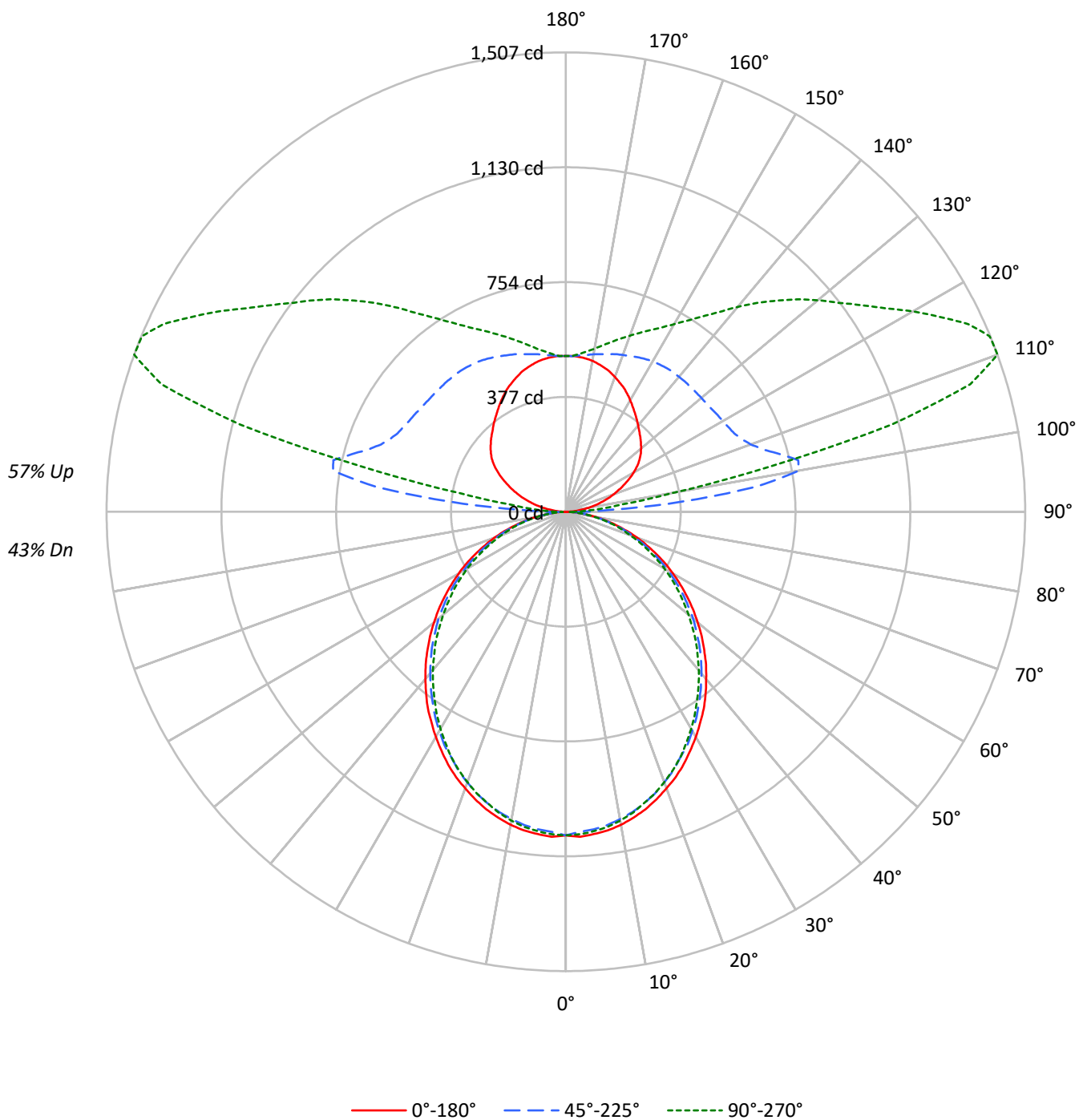
Lumens per Lamp: N/A
Luminaire Lumens: 6265.0 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P998962

CATALOG NUMBER: SA2XXDIP-B675D925UB40-4F0-XX-W2A-F4

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	106	106	106	106	96	96	96	96	80	80	80		64	64	64		50
1	96	92	88	85	88	84	81	78	70	67	65		56	55	53		44
2	88	80	74	69	80	74	68	64	61	57	54		49	47	44		39
3	80	71	63	58	73	65	58	53	54	49	45		44	40	38		34
4	73	62	55	49	67	57	51	45	48	43	39		39	35	32		31
5	67	56	48	42	61	51	44	39	43	37	33		35	31	28		28
6	62	50	42	36	56	46	39	34	38	33	29		32	28	24		25
7	57	45	37	32	52	41	34	30	35	29	26		29	25	22		23
8	53	41	33	28	48	38	31	26	32	26	23		26	22	19		21
9	49	37	30	25	45	34	28	23	29	24	20		24	20	17		19
10	46	34	27	22	42	32	25	21	27	22	18		22	18	16		18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16800	16800	16800
5°	16827	16012	15899
10°	16689	15283	14979
15°	16445	14547	14012
20°	16114	13747	13096
25°	15785	12913	12182
30°	15371	12127	11222
35°	14981	11300	10279
40°	14497	10483	9388
45°	14019	9672	8515
50°	13494	8847	7608
55°	12942	7966	6749
60°	12323	7011	5857
65°	11646	6040	4917
70°	10783	4978	3972
75°	9588	3838	3066
80°	8143	2609	1974
85°	5905	1214	839

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14019 cd/sqm

TEST NUMBER: P998962

CATALOG NUMBER: SA2XXDIP-B675D925UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.6
10°-20°	281.0	4.5
20°-30°	413.0	6.6
30°-40°	479.7	7.7
40°-50°	479.1	7.6
50°-60°	417.7	6.7
60°-70°	308.8	4.9
70°-80°	174.7	2.8
80°-90°	49.4	0.8
90°-100°	207.1	3.3
100°-110°	700.1	11.2
110°-120°	735.9	11.7
120°-130°	605.2	9.7
130°-140°	486.3	7.8
140°-150°	367.4	5.9
150°-160°	258.3	4.1
160°-170°	152.1	2.4
170°-180°	49.5	0.8
0°-30°	793.9	12.7
0°-40°	1273.6	20.3
0°-60°	2170.4	34.6
0°-90°	2703.2	43.1
90°-120°	1643.2	26.2
90°-150°	3102.0	49.5
90°-180°	3562.0	56.9
0°-180°	6265.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1061	1061	1061	1061	1061	
5°	1061	1057	1046	1054	1052	101
15°	1010	1004	991	995	990	285
25°	914	906	889	891	889	421
35°	789	779	762	756	751	493
45°	642	635	619	608	604	495
55°	486	480	467	455	450	434
65°	328	321	311	302	297	324
75°	171	169	164	158	160	183
85°	42	41	40	37	36	47
90°	1	13	33	32	32	5
95°	34	84	385	145	112	36
105°	120	181	728	1301	1107	127
115°	211	267	609	1257	1457	209
125°	295	349	586	1018	1182	262
135°	346	413	579	856	980	267
145°	395	454	576	715	782	248
155°	449	485	559	632	657	207
165°	489	504	535	568	577	138
175°	510	510	515	521	520	48
180°	511	511	511	511	511	

TEST NUMBER: P998962

CATALOG NUMBER: SA2XXDIP-B675D925UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1061.3	1061.3	1061.3	1061.3	1061.3
2.5°	1067.4	1062.3	1051.0	1061.3	1059.2
5°	1061.3	1057.2	1045.9	1054.1	1052.1
7.5°	1054.1	1048.0	1036.8	1044.9	1042.9
10°	1042.9	1035.7	1023.5	1031.7	1028.6
12.5°	1027.6	1021.5	1009.2	1014.3	1012.3
15°	1010.2	1004.1	990.8	994.9	989.8
17.5°	988.8	982.7	969.4	974.5	969.4
20°	965.3	959.2	944.9	948.0	943.9
22.5°	941.9	932.7	919.4	919.4	917.4
25°	914.3	906.1	888.8	890.8	888.8
27.5°	883.7	876.6	863.3	860.2	855.1
30°	853.1	844.9	829.6	826.6	822.5
32.5°	820.4	814.3	798.0	791.9	787.8
35°	788.8	778.6	762.3	756.1	751.0
37.5°	753.1	743.9	727.6	720.4	715.3
40°	716.3	708.2	691.9	682.7	678.6
42.5°	680.6	672.5	656.1	645.9	639.8
45°	641.9	634.7	619.4	608.2	604.1
47.5°	604.1	597.0	580.6	569.4	563.3
50°	564.3	559.2	544.9	530.6	525.5
52.5°	525.5	518.4	505.1	493.9	486.7
55°	485.7	479.6	467.4	455.1	450.0
57.5°	445.9	440.8	427.6	415.3	411.2
60°	406.1	402.1	387.8	376.5	373.5
62.5°	367.4	360.2	350.0	339.8	335.7
65°	327.6	321.4	311.2	302.0	296.9
67.5°	286.7	281.6	272.5	265.3	261.2
70°	249.0	244.9	235.7	228.6	224.5
72.5°	210.2	206.1	201.0	193.9	190.8
75°	171.4	169.4	164.3	158.2	160.2
77.5°	136.7	132.7	130.6	127.6	124.5
80°	102.0	101.0	99.0	95.9	93.9
82.5°	69.4	69.4	68.4	64.3	64.3
85°	41.8	40.8	39.8	36.7	35.7
87.5°	18.4	16.3	14.3	11.2	10.2
90°	1.0	13.2	33.4	31.9	32.4
92.5°	14.7	46.7	151.3	69.8	59.9
95°	34.4	84.5	385.1	145.4	112.0
97.5°	51.1	111.5	627.8	291.8	187.6
100°	75.6	136.6	776.1	581.2	351.7
102.5°	98.2	159.2	781.0	982.4	685.7
105°	119.9	180.8	728.0	1301.2	1107.2
107.5°	143.4	202.4	678.9	1416.6	1391.1
110°	167.0	224.4	645.5	1398.0	1507.1

TEST NUMBER: P998962

CATALOG NUMBER: SA2XXDIP-B675D925UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.6	245.6	623.9	1334.6	1505.1
115°	211.2	266.8	609.1	1257.0	1457.0
117.5°	234.8	287.8	601.3	1182.8	1384.3
120°	256.4	308.4	594.4	1116.5	1314.5
122.5°	277.0	329.6	590.4	1065.0	1241.8
125°	294.7	348.8	585.5	1018.3	1181.9
127.5°	309.5	367.0	582.6	978.5	1125.9
130°	322.2	383.2	580.6	938.2	1079.7
132.5°	334.0	398.8	579.6	896.4	1031.6
135°	345.8	412.6	578.7	855.7	979.5
137.5°	356.6	424.4	578.7	814.4	929.4
140°	369.4	435.2	577.7	778.1	877.3
142.5°	382.2	444.1	577.7	743.2	825.3
145°	394.9	453.9	575.7	714.8	782.0
147.5°	408.7	461.8	572.8	689.7	743.7
150°	422.5	469.6	569.8	668.0	710.3
152.5°	436.2	477.4	564.9	649.9	681.8
155°	449.0	484.8	559.0	632.2	657.3
157.5°	459.8	490.7	553.1	615.5	635.6
160°	470.6	496.6	547.2	598.8	615.0
162.5°	481.4	501.0	542.3	583.0	595.4
165°	489.3	504.0	535.4	567.8	576.7
167.5°	496.1	507.0	529.5	554.1	559.0
170°	503.0	508.4	524.6	541.3	543.3
172.5°	506.9	509.9	518.7	530.0	530.5
175°	509.9	510.4	514.8	521.2	519.7
177.5°	511.9	510.9	510.9	514.8	511.9
180°	510.9	510.9	510.9	510.9	510.9

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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	14.37	15.17	15.38	16.19	17.56	15.15	15.95	16.16	16.98	18.34
	3H	15.70	16.42	16.73	17.45	18.84	16.77	17.49	17.80	18.52	19.91
	4H	16.10	16.79	17.14	17.82	19.21	17.36	18.04	18.40	19.08	20.47
	6H	16.32	16.95	17.37	17.99	19.39	17.76	18.39	18.81	19.43	20.83
	8H	16.35	16.95	17.40	18.00	19.40	17.87	18.47	18.92	19.52	20.92
	12H	16.34	16.91	17.39	17.95	19.38	17.91	18.48	18.97	19.53	20.95
4H	2H	14.83	15.51	15.87	16.55	17.94	15.47	16.16	16.52	17.19	18.58
	3H	16.34	16.91	17.39	17.97	19.38	17.25	17.82	18.30	18.88	20.29
	4H	16.85	17.37	17.90	18.42	19.85	17.93	18.45	18.98	19.50	20.93
	6H	17.14	17.59	18.21	18.67	20.09	18.42	18.87	19.49	19.95	21.37
	8H	17.20	17.62	18.27	18.69	20.13	18.56	18.98	19.63	20.05	21.49
	12H	17.20	17.58	18.28	18.66	20.10	18.62	19.00	19.71	20.08	21.53
8H	4H	17.02	17.43	18.08	18.50	19.94	18.01	18.43	19.08	19.50	20.94
	6H	17.40	17.74	18.49	18.86	20.29	18.57	18.92	19.67	20.03	21.47
	8H	17.50	17.80	18.60	18.90	20.35	18.76	19.07	19.86	20.16	21.62
	12H	17.53	17.80	18.63	18.89	20.38	18.86	19.13	19.96	20.22	21.71
12H	4H	17.00	17.37	18.08	18.46	19.90	17.97	18.35	19.06	19.43	20.88
	6H	17.41	17.72	18.51	18.81	20.27	18.57	18.87	19.66	19.97	21.42
	8H	17.52	17.79	18.63	18.88	20.38	18.76	19.03	19.86	20.12	21.61