

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: P1000019

Luminaire Tested: SA2XXRDIP-B675D725UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000019
REPORT IS A COMBINATION OF REPORTS P988576 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: SA2XXRDIP-B675D725UB50-4F0-XX-W2A-F1
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

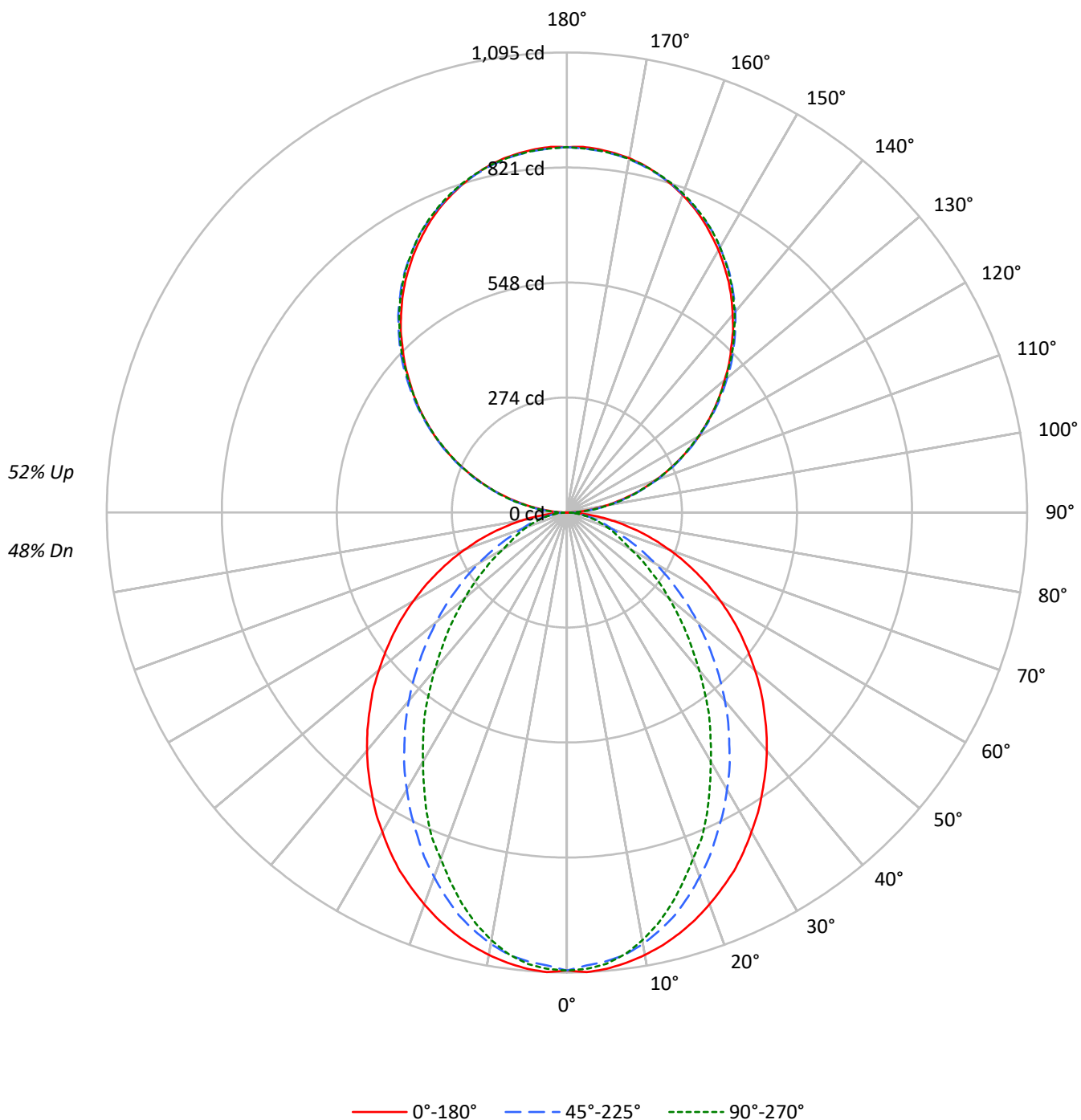
Lumens per Lamp: N/A
Luminaire Lumens: 4676.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 57
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: P1000019

CATALOG NUMBER: SA2XXRDIP-B675D725UB50-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1000019

CATALOG NUMBER: SA2XXRDIP-B675D725UB50-4F0-XX-W2A-F1

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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54
1	98	94	90	87	90	86	83	80	73	70	68	60	59	57	49	48	47
2	89	82	76	71	82	76	71	67	64	61	57	53	51	49	43	42	40
3	82	73	66	60	75	67	61	56	57	53	49	48	44	42	39	37	35
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	35	32	30
5	69	58	50	44	63	54	47	42	46	41	36	39	35	32	32	29	27
6	64	52	44	39	59	48	41	36	42	36	32	35	31	28	29	26	24
7	59	47	39	34	54	44	37	32	38	32	28	32	28	25	27	24	21
8	55	43	35	30	51	40	33	29	35	29	25	29	25	22	25	21	19
9	51	39	32	27	47	37	30	26	32	27	23	27	23	20	23	20	17
10	48	36	29	24	44	34	27	23	29	24	21	25	21	18	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17256	17256	17256
5°	17284	16417	16295
10°	17114	15571	15057
15°	16879	14572	13645
20°	16568	13435	12168
25°	16249	12269	10817
30°	15820	11133	9342
35°	15400	9988	8075
40°	14975	8863	6769
45°	14480	7703	5632
50°	13965	6584	4585
55°	13432	5464	3640
60°	12811	4370	2754
65°	12101	3332	2239
70°	11238	2416	1780
75°	10153	1843	1359
80°	8583	1249	912
85°	5989	570	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14480 cd/sqm

TEST NUMBER: P1000019

CATALOG NUMBER: SA2XXRDIP-B675D725UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	2.2
10°-20°	280.5	6.0
20°-30°	393.8	8.4
30°-40°	429.2	9.2
40°-50°	394.5	8.4
50°-60°	309.8	6.6
60°-70°	201.7	4.3
70°-80°	103.8	2.2
80°-90°	29.0	0.6
90°-100°	53.8	1.2
100°-110°	171.0	3.7
110°-120°	292.7	6.3
120°-130°	384.9	8.2
130°-140°	432.0	9.2
140°-150°	423.7	9.1
150°-160°	355.4	7.6
160°-170°	235.7	5.0
170°-180°	82.4	1.8
0°-30°	776.4	16.6
0°-40°	1205.7	25.8
0°-60°	1910.0	40.8
0°-90°	2244.5	48.0
90°-120°	517.5	11.1
90°-150°	1758.1	37.6
90°-180°	2432.0	52.0
0°-180°	4676.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1090	1085	1072	1081	1078	103
15°	1037	1026	992	974	964	292
25°	941	910	844	804	789	433
35°	811	761	674	612	590	508
45°	663	597	493	423	400	512
55°	504	427	321	261	243	450
65°	340	260	172	138	135	337
75°	182	112	79	72	71	192
85°	42	22	19	19	19	49
90°	1	10	26	24	25	5
95°	38	46	47	47	46	43
105°	158	160	162	163	163	167
115°	294	298	296	296	294	290
125°	427	434	432	429	429	382
135°	553	561	562	562	559	427
145°	671	676	680	681	678	419
155°	767	769	771	775	773	353
165°	834	834	834	839	835	235
175°	868	866	865	870	865	82
180°	870	870	870	870	870	

TEST NUMBER: P1000019

CATALOG NUMBER: SA2XXRDIP-B675D725UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.1	1090.1	1090.1	1090.1	1090.1
2.5°	1095.1	1090.1	1079.3	1089.1	1087.2
5°	1090.1	1085.2	1072.4	1081.3	1078.3
7.5°	1081.3	1075.3	1061.5	1065.5	1060.5
10°	1069.4	1062.5	1042.8	1039.8	1033.9
12.5°	1054.6	1045.7	1019.1	1013.2	1002.3
15°	1036.9	1026.0	992.5	973.7	963.9
17.5°	1016.1	1000.4	958.9	937.2	921.4
20°	992.5	972.7	923.4	898.7	877.0
22.5°	966.8	944.1	886.9	853.4	838.6
25°	941.2	909.6	844.5	804.0	789.2
27.5°	910.6	877.0	805.0	758.7	736.0
30°	878.0	840.5	761.6	711.3	684.7
32.5°	846.5	801.1	720.2	661.0	636.3
35°	810.9	760.6	673.8	611.7	590.0
37.5°	776.4	722.2	630.4	562.3	537.7
40°	739.9	680.7	585.0	515.0	489.3
42.5°	702.4	639.3	539.6	466.6	442.0
45°	663.0	596.9	493.3	423.2	399.6
47.5°	625.5	555.4	448.9	378.8	357.1
50°	584.0	514.0	405.5	337.4	316.7
52.5°	543.6	469.6	364.0	298.9	280.2
55°	504.1	427.2	320.6	261.4	242.7
57.5°	463.7	384.8	282.2	226.9	211.1
60°	422.2	343.3	241.7	191.4	175.6
62.5°	381.8	302.9	207.2	159.8	151.9
65°	340.4	260.4	171.7	138.1	135.2
67.5°	300.9	221.0	138.1	121.3	118.4
70°	259.5	182.5	114.4	104.6	100.6
72.5°	220.0	147.0	95.7	87.8	85.8
75°	181.5	112.5	78.9	72.0	71.0
77.5°	143.0	79.9	62.2	58.2	56.2
80°	107.5	57.2	47.4	43.4	43.4
82.5°	75.0	38.5	32.6	30.6	30.6
85°	42.4	21.7	18.7	18.7	18.7
87.5°	15.8	7.9	7.9	6.9	6.9
90°	0.7	9.5	25.7	24.2	25.0
92.5°	16.1	22.0	22.8	23.5	23.5
95°	38.2	45.5	47.0	47.0	45.5
97.5°	63.9	70.5	73.4	73.4	73.4
100°	93.2	99.1	101.3	101.3	100.5
102.5°	124.0	128.4	131.4	132.1	131.4
105°	157.8	160.0	161.5	162.9	162.9
107.5°	191.6	194.5	194.5	195.2	191.6
110°	223.8	228.3	228.3	228.3	226.0



TEST NUMBER: P1000019

CATALOG NUMBER: SA2XXRDIP-B675D725UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	259.1	263.5	262.7	260.5	259.1
115°	293.6	298.0	296.5	295.8	293.6
117.5°	328.1	333.9	330.3	328.1	325.9
120°	362.6	368.4	362.6	362.6	360.4
122.5°	394.1	401.5	397.8	395.6	394.1
125°	427.1	433.8	431.5	429.3	428.6
127.5°	459.4	467.5	464.6	461.6	459.4
130°	489.5	499.1	497.6	496.1	493.2
132.5°	523.3	530.6	531.4	527.7	525.5
135°	552.6	560.7	562.2	561.5	559.3
137.5°	584.9	591.5	593.0	592.3	589.3
140°	613.6	620.2	623.8	623.8	620.9
142.5°	642.9	649.5	651.7	652.5	649.5
145°	670.8	675.9	680.4	681.1	678.1
147.5°	695.8	702.4	705.3	706.8	703.8
150°	721.4	725.9	728.8	731.0	728.8
152.5°	744.2	748.6	752.3	755.2	752.3
155°	767.0	769.2	771.4	775.0	772.8
157.5°	786.8	788.2	789.7	794.8	791.2
160°	804.4	805.9	806.6	811.0	808.1
162.5°	820.5	820.5	821.3	826.4	822.7
165°	834.5	833.7	833.7	838.9	835.2
167.5°	847.0	844.7	844.7	849.9	846.2
170°	856.5	854.3	853.6	858.7	854.3
172.5°	863.1	860.9	860.2	865.3	860.9
175°	868.2	866.0	864.6	869.7	865.3
177.5°	871.2	869.0	867.5	871.9	867.5
180°	869.7	869.7	869.7	869.7	869.7

(END OF REPORT)