

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: P1000018

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

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1000018
REPORT IS A COMBINATION OF REPORTS P988575 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-F
Description: Define 2 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

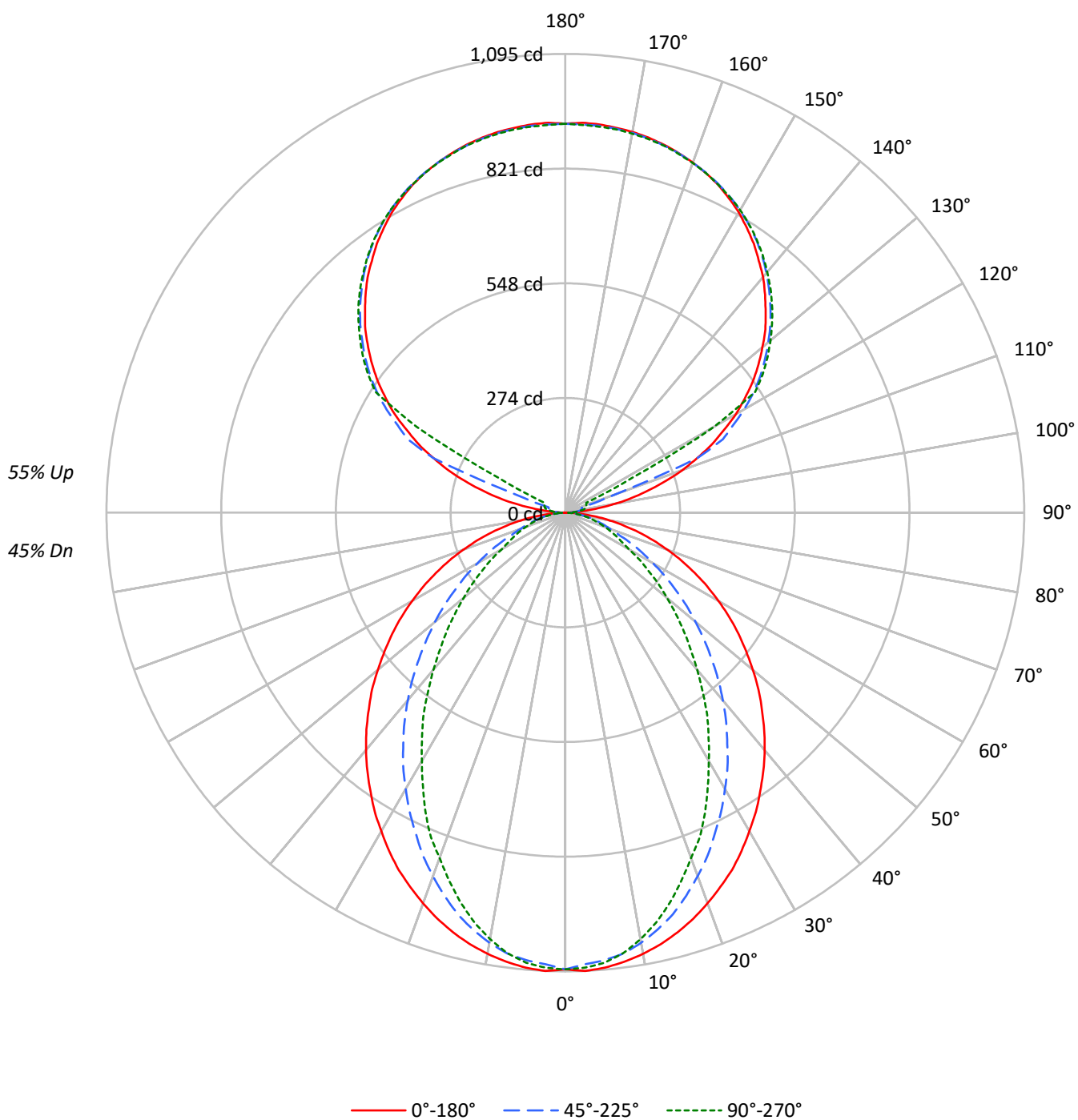
Lumens per Lamp: N/A
Luminaire Lumens: 4965.0 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1000018

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

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52
1	97	93	89	86	89	85	82	79	71	69	67	58	57	55	46	45	44
2	89	82	76	71	81	75	70	66	63	59	56	52	49	47	41	40	38
3	81	72	65	60	74	67	60	56	56	51	48	46	43	40	37	35	33
4	75	64	57	51	68	59	53	47	50	45	41	41	38	35	33	31	29
5	69	57	50	44	63	53	46	41	45	40	36	37	33	30	30	28	25
6	63	52	44	38	58	48	41	36	41	35	31	34	30	27	28	25	23
7	59	47	39	34	54	43	36	32	37	32	28	31	27	24	25	22	20
8	54	42	35	30	50	39	33	28	34	28	25	28	24	21	23	20	18
9	51	39	32	27	47	36	30	25	31	26	22	26	22	19	22	19	17
10	47	36	29	24	44	33	27	23	29	24	20	24	20	18	20	17	15

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: P1000018

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.2	2.1
10°-20°	280.5	5.6
20°-30°	393.8	7.9
30°-40°	429.2	8.6
40°-50°	394.5	7.9
50°-60°	309.8	6.2
60°-70°	201.7	4.1
70°-80°	103.8	2.1
80°-90°	28.1	0.6
90°-100°	30.6	0.6
100°-110°	114.1	2.3
110°-120°	302.6	6.1
120°-130°	501.9	10.1
130°-140°	533.2	10.7
140°-150°	495.5	10.0
150°-160°	398.4	8.0
160°-170°	256.7	5.2
170°-180°	88.4	1.8
0°-30°	776.4	15.6
0°-40°	1205.7	24.3
0°-60°	1910.0	38.5
0°-90°	2243.6	45.2
90°-120°	447.3	9.0
90°-150°	1977.9	39.8
90°-180°	2721.0	54.8
0°-180°	4965.0	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	8	13	17	18	5
95°	44	22	26	30	29	52
105°	204	224	41	48	51	218
115°	386	398	414	103	55	380
125°	546	555	568	572	574	487
135°	676	686	692	699	698	522
145°	784	783	795	799	796	490
155°	863	857	865	869	864	398
165°	910	905	907	912	907	257
175°	930	926	927	932	925	89
180°	928	928	928	928	928	

TEST NUMBER: P1000018

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

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	8.1	13.4	16.8	18.1
92.5°	16.8	14.1	16.1	17.5	18.1
95°	43.7	21.5	26.2	29.6	28.9
97.5°	78.6	23.5	34.3	36.3	36.9
100°	118.9	26.9	38.3	43.7	45.0
102.5°	163.2	161.9	39.6	47.0	49.0
105°	204.2	224.3	41.0	48.4	51.0
107.5°	251.9	268.7	42.3	49.7	52.4
110°	297.6	311.7	117.5	50.4	53.1



TEST NUMBER: P1000018

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	340.5	352.6	341.2	51.7	53.7
115°	386.2	397.6	414.4	103.4	55.1
117.5°	425.8	439.3	450.7	354.7	178.7
120°	470.2	480.3	492.3	500.4	409.7
122.5°	507.8	518.5	532.0	536.0	536.7
125°	546.1	554.8	567.6	572.3	574.3
127.5°	581.0	590.4	600.5	607.2	607.9
130°	613.9	624.7	632.1	639.4	638.8
132.5°	647.5	656.2	663.6	669.7	669.0
135°	675.7	686.5	692.5	699.2	697.9
137.5°	705.3	713.3	720.0	726.8	724.8
140°	734.2	739.5	746.9	753.0	749.6
142.5°	758.3	763.0	771.8	777.1	773.8
145°	783.9	783.2	794.6	799.3	795.9
147.5°	806.0	804.0	815.4	818.8	816.1
150°	827.5	822.8	833.6	837.6	834.2
152.5°	845.7	840.3	850.4	854.4	849.7
155°	863.1	857.1	865.1	869.2	863.8
157.5°	877.2	871.8	877.9	882.6	877.2
160°	889.3	885.3	889.3	893.3	888.6
162.5°	900.1	896.0	899.4	904.1	898.0
165°	909.5	905.4	907.4	912.2	907.4
167.5°	916.9	912.8	914.8	919.5	913.5
170°	922.9	918.9	920.2	924.9	918.9
172.5°	926.9	922.9	924.2	928.9	922.9
175°	930.3	925.6	926.9	931.6	924.9
177.5°	931.6	926.9	927.6	932.3	926.3
180°	928.3	928.3	928.3	928.3	928.3

(END OF REPORT)