

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: P1009345

Luminaire Tested: S122DIP-B675D725UB27-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009345
REPORT IS A COMBINATION OF REPORTS P984601 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D725UB27-4F0-XX-W2A-D
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

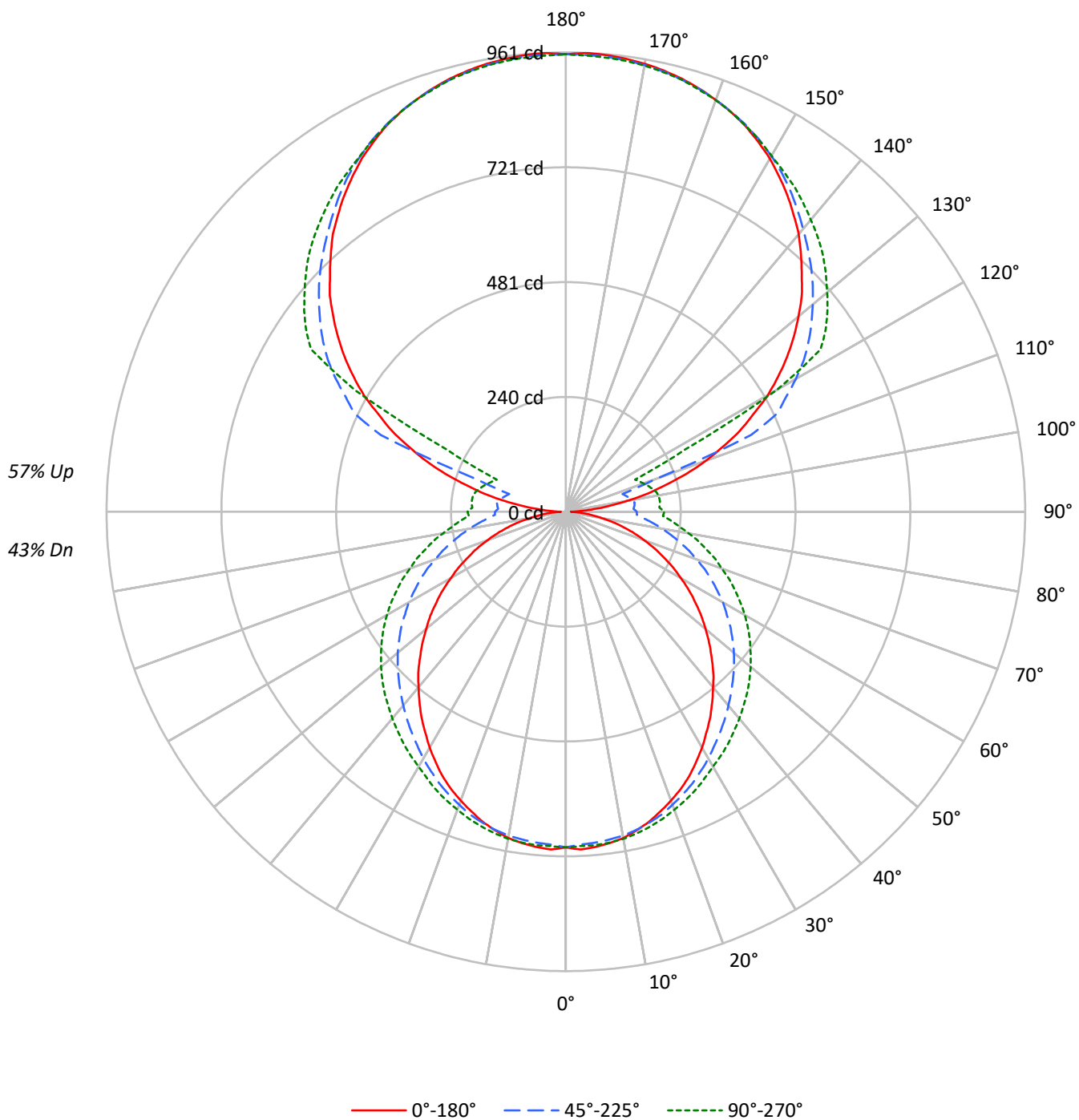
Lumens per Lamp: N/A
Luminaire Lumens: 5487.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1009345

CATALOG NUMBER: S122DIP-B675D725UB27-4F0-XX-W2A-D

Luminous Intensity Polar Plot



TEST NUMBER: P1009345

CATALOG NUMBER: S122DIP-B675D725UB27-4F0-XX-W2A-D

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	80	80	80	64	64	64	50	50	50
1	95	90	86	82	87	82	79	75	68	65	63	54	53	51	42	41	40
2	86	78	71	66	78	71	66	61	59	54	51	47	44	41	36	34	32
3	78	68	60	54	71	62	56	50	51	46	42	41	38	34	32	29	27
4	71	60	52	45	65	55	48	42	45	40	35	36	32	29	28	25	23
5	65	53	45	39	59	49	41	36	40	35	30	33	28	25	25	22	20
6	60	48	39	33	54	44	36	31	36	30	26	29	25	22	23	20	17
7	55	43	35	29	50	39	32	27	33	27	23	27	22	19	21	18	15
8	51	39	31	25	47	36	29	24	30	24	20	24	20	17	19	16	13
9	48	35	28	22	43	32	26	21	27	22	18	22	18	15	17	14	12
10	44	32	25	20	41	30	23	19	25	20	16	20	16	14	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11114	11114	11114
5°	11164	10640	10580
10°	11090	10272	10121
15°	10933	9890	9652
20°	10735	9489	9204
25°	10540	9106	8801
30°	10267	8717	8399
35°	9991	8341	8105
40°	9701	8016	7813
45°	9422	7722	7558
50°	9125	7451	7307
55°	8812	7162	7051
60°	8430	6861	6782
65°	8031	6517	6471
70°	7579	6146	6139
75°	7004	5777	5822
80°	6092	5389	5498
85°	5170	5025	5216

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9422 cd/sqm

TEST NUMBER: P1009345

CATALOG NUMBER: S122DIP-B675D725UB27-4F0-XX-W2A-D

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.2
10°-20°	190.9	3.5
20°-30°	289.2	5.3
30°-40°	352.2	6.4
40°-50°	379.0	6.9
50°-60°	368.0	6.7
60°-70°	321.4	5.9
70°-80°	247.4	4.5
80°-90°	167.4	3.1
90°-100°	145.9	2.7
100°-110°	201.1	3.7
110°-120°	367.2	6.7
120°-130°	548.3	10.0
130°-140°	562.7	10.3
140°-150°	513.2	9.4
150°-160°	410.8	7.5
160°-170°	264.7	4.8
170°-180°	91.1	1.7
0°-30°	546.7	10.0
0°-40°	898.9	16.4
0°-60°	1645.9	30.0
0°-90°	2382.0	43.4
90°-120°	714.2	13.0
90°-150°	2338.3	42.6
90°-180°	3105.0	56.6
0°-180°	5487.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	704	701	695	701	700	67
15°	672	674	674	683	682	189
25°	610	618	627	639	642	281
35°	526	543	563	585	592	329
45°	431	459	494	526	536	333
55°	331	367	420	457	470	296
65°	226	276	336	378	391	224
75°	125	182	247	291	304	132
85°	37	100	165	208	222	39
90°	11	78	148	192	206	10
95°	53	78	144	186	198	60
105°	216	266	130	173	187	231
115°	402	425	488	198	160	396
125°	565	574	620	652	663	504
135°	698	709	725	754	760	539
145°	808	808	819	830	832	506
155°	890	884	892	896	891	410
165°	938	934	936	941	936	265
175°	959	954	956	961	954	91
180°	957	957	957	957	957	

TEST NUMBER: P1009345

CATALOG NUMBER: S122DIP-B675D725UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.1	702.1	702.1	702.1	702.1
2.5°	707.2	704.1	697.0	702.1	700.1
5°	704.1	701.1	695.0	701.1	700.1
7.5°	699.1	697.0	691.9	699.1	698.0
10°	693.0	690.9	687.9	696.0	695.0
12.5°	682.8	683.8	681.8	689.9	688.9
15°	671.6	673.6	673.6	682.8	681.8
17.5°	657.3	661.4	664.5	673.6	673.6
20°	643.1	648.2	652.2	663.4	663.4
22.5°	627.8	633.9	640.0	651.2	653.3
25°	610.5	617.7	626.8	639.0	642.1
27.5°	590.2	601.4	611.5	626.8	628.8
30°	569.8	583.1	596.3	612.6	615.6
32.5°	547.4	562.7	579.0	598.3	604.4
35°	526.1	543.4	562.7	585.1	592.2
37.5°	502.7	522.0	546.4	570.8	578.0
40°	479.3	501.7	529.1	555.6	564.7
42.5°	456.9	479.3	511.8	541.3	550.5
45°	431.4	458.9	494.5	526.1	536.2
47.5°	407.0	436.5	477.2	509.8	521.0
50°	381.6	413.1	458.9	493.5	504.7
52.5°	357.2	390.7	439.6	475.2	487.4
55°	330.7	367.3	420.2	456.9	470.1
57.5°	305.3	346.0	398.9	438.6	451.8
60°	277.8	321.5	379.5	418.2	432.5
62.5°	253.4	299.2	357.2	398.9	412.1
65°	225.9	275.8	335.8	377.5	390.7
67.5°	201.5	253.4	314.4	356.1	370.4
70°	175.0	227.9	291.0	334.8	347.0
72.5°	150.6	205.5	269.7	312.4	327.7
75°	125.2	182.1	247.3	291.0	304.2
77.5°	100.7	159.8	225.9	269.7	283.9
80°	76.3	138.4	204.5	247.3	261.5
82.5°	56.0	117.0	184.2	226.9	240.1
85°	36.6	99.7	164.8	207.6	221.8
87.5°	22.4	83.4	148.6	190.3	203.5
90°	10.9	77.5	148.2	192.3	205.9
92.5°	26.5	77.6	141.8	182.8	195.8
95°	53.1	78.2	144.0	186.2	197.7
97.5°	88.1	75.1	145.2	184.9	197.9
100°	129.7	72.5	141.3	184.4	197.0
102.5°	174.4	206.6	135.5	179.8	193.1
105°	215.7	265.9	129.8	173.0	186.9
107.5°	264.8	306.6	124.0	166.3	180.2
110°	310.9	345.8	195.5	158.7	172.7

TEST NUMBER: P1009345

CATALOG NUMBER: S122DIP-B675D725UB27-4F0-XX-W2A-D

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	355.3	384.0	419.1	153.0	166.3
115°	402.4	425.4	488.5	198.3	159.6
117.5°	442.2	464.2	518.7	450.2	278.8
120°	488.0	502.3	555.5	592.3	510.0
122.5°	526.7	538.8	590.3	621.9	631.8
125°	565.1	574.1	619.9	652.2	663.4
127.5°	601.1	609.8	647.7	680.1	690.0
130°	635.1	645.2	674.2	706.2	713.6
132.5°	669.7	677.7	700.6	730.3	737.7
135°	697.8	708.9	725.3	753.7	760.4
137.5°	728.3	736.6	748.6	774.9	780.0
140°	758.1	762.6	772.2	794.8	797.4
142.5°	783.0	786.9	795.9	813.6	815.2
145°	808.3	807.6	819.4	830.4	832.0
147.5°	831.2	829.1	840.9	845.3	845.7
150°	853.3	848.5	859.6	863.7	860.3
152.5°	872.1	866.5	876.9	881.1	876.2
155°	890.1	883.8	892.1	896.3	890.8
157.5°	904.6	899.1	905.3	910.1	904.6
160°	917.1	912.9	917.1	921.2	916.4
162.5°	928.2	924.0	927.5	932.3	926.1
165°	937.9	933.7	935.8	940.6	935.8
167.5°	945.5	941.3	943.4	948.2	942.0
170°	951.7	947.6	948.9	953.8	947.6
172.5°	955.9	951.7	953.1	957.9	951.7
175°	959.3	954.5	955.9	960.7	953.8
177.5°	960.7	955.9	956.6	961.4	955.2
180°	957.2	957.2	957.2	957.2	957.2

(END OF REPORT)