

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: P1009381

Luminaire Tested: S122DIP-B675D725UB50-4F0-XX-W2A-D

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009381
REPORT IS A COMBINATION OF REPORTS P984652 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D725UB50-4F0-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

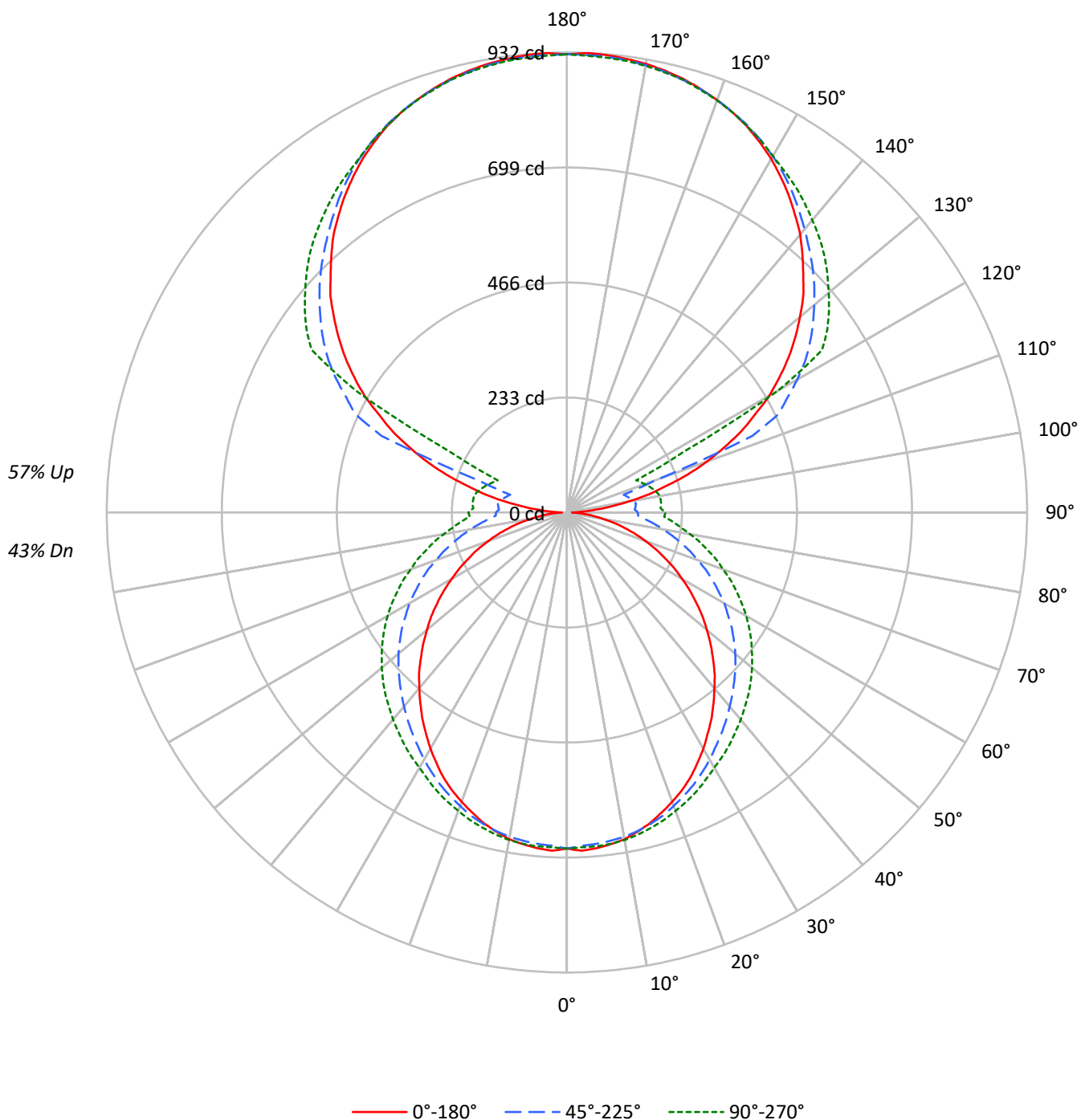
Lumens per Lamp: N/A
Luminaire Lumens: 5321.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	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°	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	1.2
10°-20°	185.1	3.5
20°-30°	280.5	5.3
30°-40°	341.6	6.4
40°-50°	367.5	6.9
50°-60°	356.9	6.7
60°-70°	311.7	5.9
70°-80°	239.9	4.5
80°-90°	162.3	3.1
90°-100°	141.5	2.7
100°-110°	195.1	3.7
110°-120°	356.1	6.7
120°-130°	531.7	10.0
130°-140°	545.7	10.3
140°-150°	497.6	9.4
150°-160°	398.4	7.5
160°-170°	256.7	4.8
170°-180°	88.4	1.7
0°-30°	530.2	10.0
0°-40°	871.7	16.4
0°-60°	1596.1	30.0
0°-90°	2310.0	43.4
90°-120°	692.6	13.0
90°-150°	2267.6	42.6
90°-180°	3011.0	56.6
0°-180°	5321.0	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	75	144	186	200	9
95°	52	76	140	181	192	58
105°	209	258	126	168	181	224
115°	390	412	474	192	155	384
125°	548	557	601	632	643	489
135°	677	688	703	731	737	523
145°	784	783	795	805	807	491
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	

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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°	10.6	75.2	143.7	186.5	199.7
92.5°	25.7	75.3	137.5	177.4	189.8
95°	51.6	75.8	139.7	180.6	191.7
97.5°	85.5	72.8	140.9	179.4	191.8
100°	125.8	70.3	137.0	178.9	191.0
102.5°	169.1	200.4	131.4	174.3	187.1
105°	209.1	257.9	125.9	167.8	181.3
107.5°	256.8	297.3	120.3	161.2	174.8
110°	301.5	335.4	189.5	154.0	167.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	344.4	372.3	406.3	148.4	161.3
115°	390.1	412.4	473.6	192.2	154.8
117.5°	428.8	450.2	503.0	436.6	270.5
120°	473.2	487.2	538.7	574.4	494.6
122.5°	510.8	522.4	572.5	603.1	612.7
125°	548.1	556.8	601.2	632.5	643.4
127.5°	583.0	591.4	628.1	659.5	669.1
130°	615.9	625.7	653.8	684.8	692.1
132.5°	649.5	657.2	679.4	708.2	715.4
135°	676.7	687.5	703.4	730.8	737.4
137.5°	706.3	714.3	725.9	751.5	756.4
140°	735.2	739.5	748.9	770.8	773.3
142.5°	759.3	763.0	771.8	788.9	790.6
145°	783.9	783.2	794.6	805.2	806.8
147.5°	806.0	804.0	815.4	819.8	820.0
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)