

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: P1009355

Luminaire Tested: S122DIP-B675D725UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009355
REPORT IS A COMBINATION OF REPORTS P984626 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B675D725UB30-4F0-XX-W2A-D1
Description: Define 2 Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

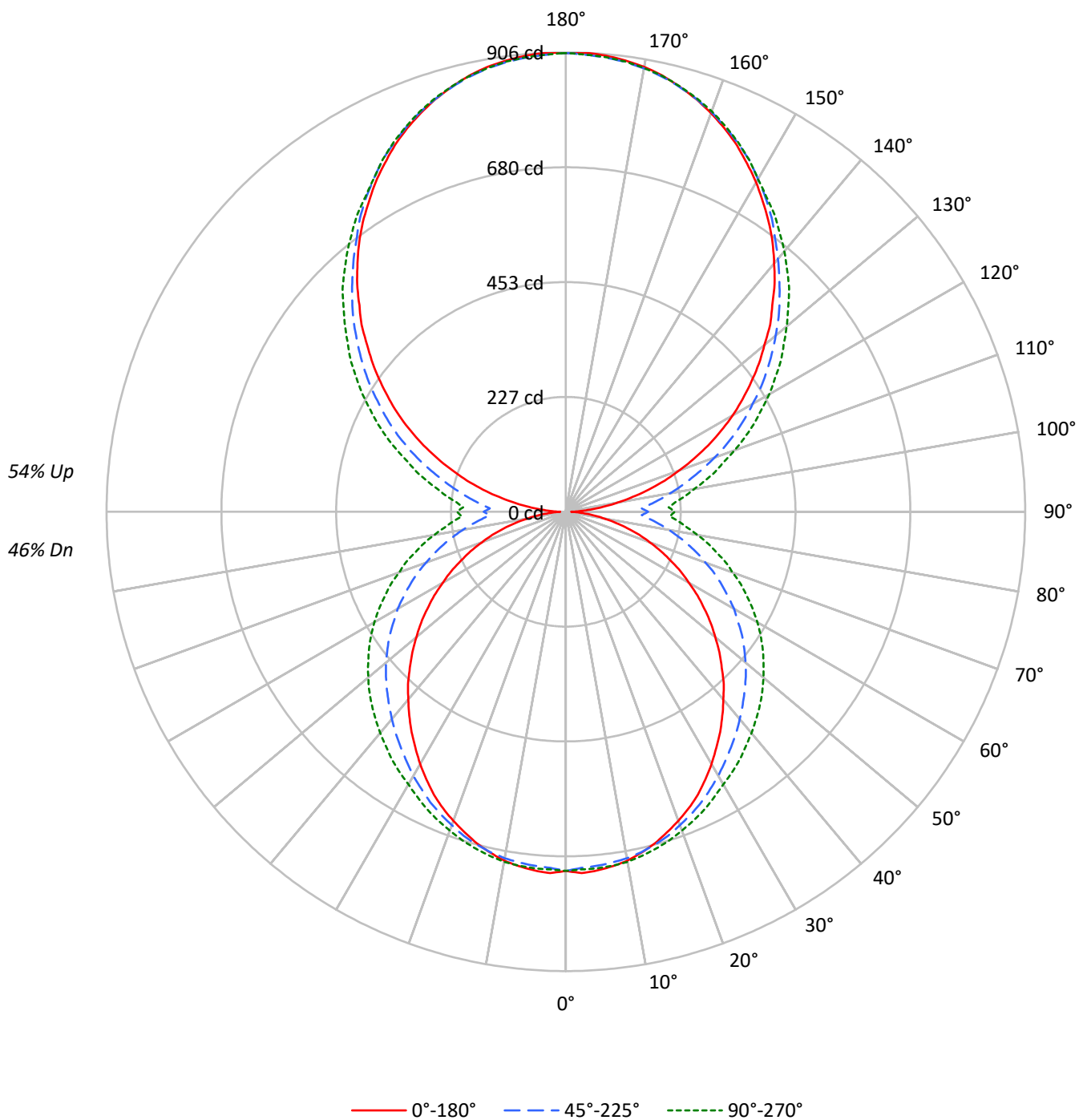
Lumens per Lamp: N/A
Luminaire Lumens: 5234.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	81	81	81	66	66	66	52	52	52
1	95	91	86	82	87	83	79	76	69	66	64	56	54	52	44	43	41
2	86	78	72	66	79	72	66	61	60	55	52	48	45	43	38	36	34
3	78	68	61	54	71	63	56	50	52	47	43	42	39	35	33	31	28
4	72	60	52	46	65	55	48	42	46	40	36	37	33	30	29	26	24
5	65	53	45	39	60	49	42	36	41	35	31	33	29	26	26	23	21
6	60	48	39	33	55	44	36	31	37	31	27	30	26	22	24	21	18
7	56	43	35	29	51	40	32	27	33	27	23	27	23	20	22	18	16
8	52	39	31	25	47	36	29	24	30	25	21	25	20	17	20	17	14
9	48	35	28	23	44	33	26	21	28	22	18	23	19	15	18	15	13
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	14	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11209	11209	11209
5°	11260	10732	10671
10°	11184	10360	10209
15°	11026	9975	9734
20°	10827	9570	9284
25°	10631	9185	8876
30°	10355	8791	8472
35°	10077	8412	8175
40°	9784	8086	7880
45°	9503	7789	7624
50°	9204	7516	7369
55°	8886	7225	7111
60°	8503	6921	6840
65°	8098	6573	6527
70°	7644	6199	6192
75°	7060	5826	5874
80°	6148	5436	5546
85°	5212	5071	5260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 9503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.1	1.3
10°-20°	192.5	3.7
20°-30°	291.7	5.6
30°-40°	355.2	6.8
40°-50°	382.2	7.3
50°-60°	371.2	7.1
60°-70°	324.2	6.2
70°-80°	249.5	4.8
80°-90°	169.7	3.2
90°-100°	171.2	3.3
100°-110°	262.1	5.0
110°-120°	360.0	6.9
120°-130°	431.3	8.2
130°-140°	462.4	8.8
140°-150°	442.9	8.5
150°-160°	369.7	7.1
160°-170°	245.2	4.7
170°-180°	85.7	1.6
0°-30°	551.4	10.5
0°-40°	906.6	17.3
0°-60°	1660.0	31.7
0°-90°	2403.4	45.9
90°-120°	793.4	15.2
90°-150°	2130.1	40.7
90°-180°	2831.0	54.1
0°-180°	5234.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	708	708	708	708	708	
5°	710	707	701	707	706	67
15°	677	679	679	689	688	191
25°	616	623	632	644	648	283
35°	531	548	568	590	597	332
45°	435	463	499	531	541	336
55°	334	370	424	461	474	298
65°	228	278	339	381	394	226
75°	126	184	249	294	307	134
85°	37	101	166	209	224	39
90°	11	80	162	202	215	10
95°	48	104	167	206	217	51
105°	169	201	256	294	305	179
115°	310	325	370	400	409	306
125°	446	453	484	509	518	399
135°	576	584	596	617	623	445
145°	698	703	708	715	717	436
155°	798	800	802	806	804	367
165°	868	867	867	873	869	245
175°	903	901	899	905	900	86
180°	905	905	905	905	905	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	708.1	708.1	708.1	708.1	708.1
2.5°	713.3	710.2	703.0	708.1	706.1
5°	710.2	707.1	701.0	707.1	706.1
7.5°	705.1	703.0	697.9	705.1	704.0
10°	698.9	696.8	693.8	702.0	701.0
12.5°	688.6	689.7	687.6	695.8	694.8
15°	677.3	679.4	679.4	688.6	687.6
17.5°	663.0	667.1	670.2	679.4	679.4
20°	648.6	653.7	657.8	669.1	669.1
22.5°	633.2	639.4	645.5	656.8	658.9
25°	615.8	623.0	632.2	644.5	647.6
27.5°	595.2	606.5	616.8	632.2	634.2
30°	574.7	588.1	601.4	617.8	620.9
32.5°	552.1	567.5	584.0	603.5	609.6
35°	530.6	548.0	567.5	590.1	597.3
37.5°	507.0	526.5	551.1	575.7	582.9
40°	483.4	506.0	533.7	560.4	569.6
42.5°	460.8	483.4	516.2	546.0	555.2
45°	435.1	462.9	498.8	530.6	540.9
47.5°	410.5	440.3	481.3	514.2	525.5
50°	384.9	416.7	462.9	497.7	509.0
52.5°	360.2	394.1	443.4	479.3	491.6
55°	333.5	370.5	423.9	460.8	474.1
57.5°	307.9	348.9	402.3	442.3	455.7
60°	280.2	324.3	382.8	421.8	436.2
62.5°	255.5	301.7	360.2	402.3	415.6
65°	227.8	278.1	338.7	380.8	394.1
67.5°	203.2	255.5	317.1	359.2	373.6
70°	176.5	229.9	293.5	337.6	350.0
72.5°	151.9	207.3	272.0	315.1	330.5
75°	126.2	183.7	249.4	293.5	306.9
77.5°	101.6	161.1	227.8	272.0	286.3
80°	77.0	139.6	206.3	249.4	263.8
82.5°	56.4	118.0	185.8	228.9	242.2
85°	36.9	100.6	166.3	209.4	223.7
87.5°	22.6	84.2	149.8	191.9	205.3
90°	11.1	79.7	162.2	201.7	214.8
92.5°	26.0	86.5	149.9	190.7	203.0
95°	47.9	103.7	166.9	205.9	216.6
97.5°	73.6	124.6	187.1	225.1	237.4
100°	104.2	148.3	208.0	246.0	256.5
102.5°	135.2	173.6	232.1	269.8	280.4
105°	169.2	201.3	256.3	293.7	305.0
107.5°	204.4	232.1	283.4	319.1	326.6
110°	237.0	262.0	312.3	345.2	354.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	273.6	294.6	341.0	371.6	381.4
115°	309.5	325.4	370.0	400.1	409.1
117.5°	344.4	358.7	398.0	426.5	434.4
120°	380.3	390.5	425.4	454.2	463.2
122.5°	413.1	421.7	455.9	481.3	489.0
125°	446.4	453.3	483.8	509.2	517.7
127.5°	480.0	487.3	512.0	534.6	541.5
130°	511.3	520.2	540.2	563.3	568.5
132.5°	546.5	553.0	569.2	588.9	594.8
135°	575.9	584.3	596.1	616.9	622.9
137.5°	609.5	616.4	623.1	641.8	645.9
140°	639.3	645.1	651.1	667.5	670.5
142.5°	669.8	675.7	678.0	691.0	693.1
145°	697.8	703.2	707.7	714.7	716.8
147.5°	723.8	730.6	733.7	736.2	736.3
150°	750.5	755.1	758.1	760.4	758.1
152.5°	774.2	778.7	782.6	785.6	782.6
155°	797.8	800.1	802.4	806.2	803.9
157.5°	818.4	820.0	821.5	826.8	823.0
160°	836.8	838.3	839.1	843.6	840.6
162.5°	853.6	853.6	854.3	859.7	855.9
165°	868.1	867.3	867.3	872.7	868.8
167.5°	881.1	878.8	878.8	884.1	880.3
170°	891.0	888.7	887.9	893.3	888.7
172.5°	897.8	895.6	894.8	900.1	895.6
175°	903.2	900.9	899.4	904.7	900.1
177.5°	906.2	904.0	902.4	907.0	902.4
180°	904.7	904.7	904.7	904.7	904.7

(END OF REPORT)