

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: P1009346

Luminaire Tested: S122DIP-B675D725UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009346
REPORT IS A COMBINATION OF REPORTS P984602 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-D1
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

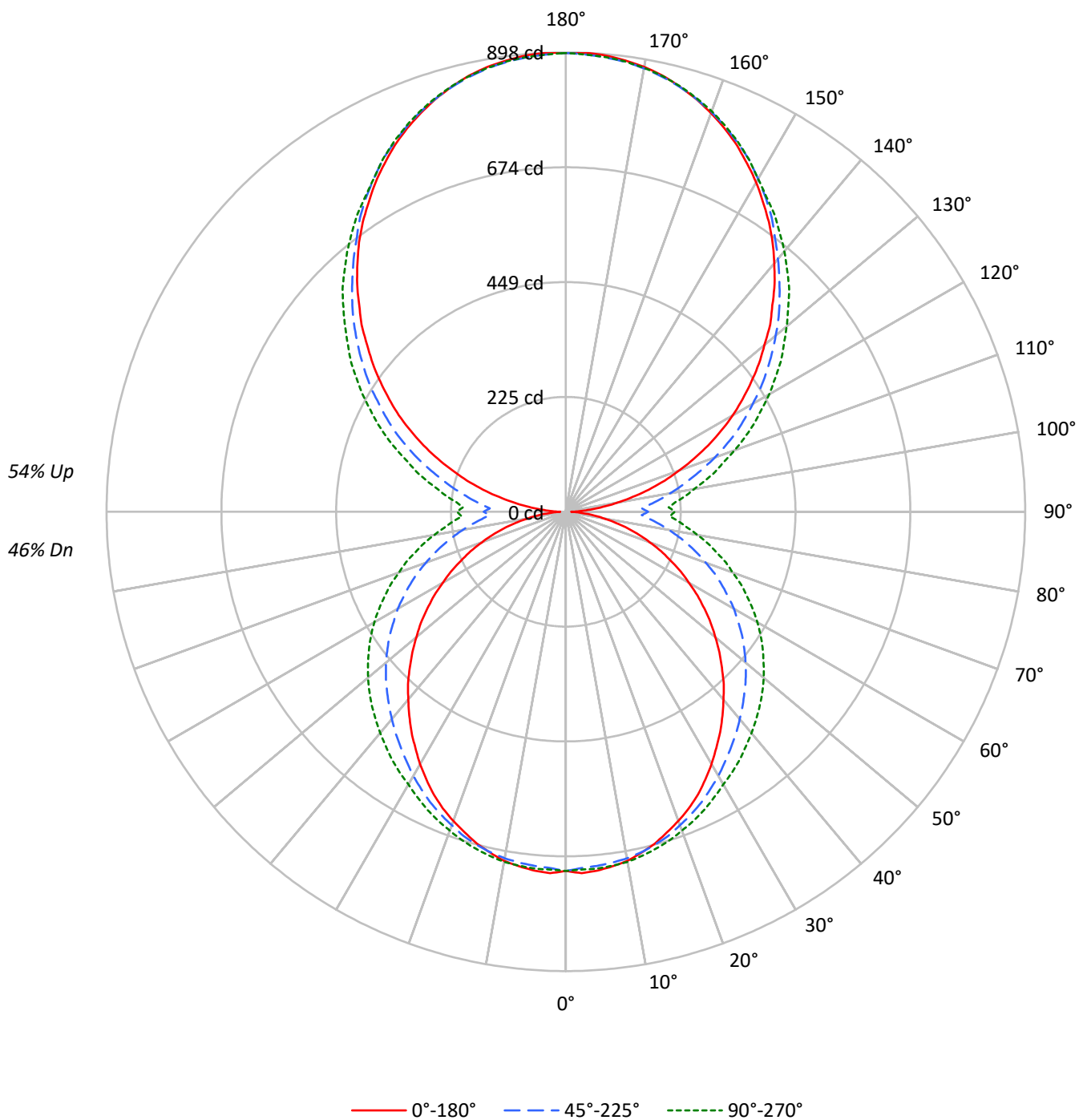
Lumens per Lamp: N/A
Luminaire Lumens: 5189.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.31 / 1.42
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	66	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°	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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.6	1.3
10°-20°	190.9	3.7
20°-30°	289.2	5.6
30°-40°	352.2	6.8
40°-50°	379.0	7.3
50°-60°	368.0	7.1
60°-70°	321.4	6.2
70°-80°	247.4	4.8
80°-90°	168.2	3.2
90°-100°	169.8	3.3
100°-110°	259.8	5.0
110°-120°	356.9	6.9
120°-130°	427.6	8.2
130°-140°	458.4	8.8
140°-150°	439.1	8.5
150°-160°	366.5	7.1
160°-170°	243.1	4.7
170°-180°	84.9	1.6
0°-30°	546.7	10.5
0°-40°	898.9	17.3
0°-60°	1645.9	31.7
0°-90°	2382.9	45.9
90°-120°	786.5	15.2
90°-150°	2111.6	40.7
90°-180°	2806.0	54.1
0°-180°	5189.0	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	79	161	200	213	10
95°	48	103	165	204	215	50
105°	168	200	254	291	302	178
115°	307	323	367	397	406	303
125°	442	449	480	505	513	396
135°	571	579	591	612	617	441
145°	692	697	702	708	710	432
155°	791	793	795	799	797	364
165°	860	860	860	865	861	243
175°	895	893	892	897	892	85
180°	897	897	897	897	897	

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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°	11.0	79.0	160.8	200.0	212.9
92.5°	25.9	85.8	148.7	189.0	201.3
95°	47.5	102.9	165.4	204.1	214.8
97.5°	72.9	123.6	185.6	223.2	235.5
100°	103.2	147.0	206.2	243.8	254.3
102.5°	134.0	172.1	230.1	267.5	278.0
105°	167.8	199.6	254.0	291.1	302.3
107.5°	202.6	230.1	281.0	316.3	323.7
110°	234.9	259.8	309.7	342.2	351.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.3	292.1	338.1	368.4	378.1
115°	306.8	322.6	366.9	396.6	405.5
117.5°	341.4	355.6	394.5	422.8	430.6
120°	377.0	387.0	421.7	450.2	459.1
122.5°	409.5	418.1	451.9	477.1	484.8
125°	442.5	449.3	479.6	504.9	513.2
127.5°	475.8	483.1	507.6	530.0	536.9
130°	506.8	515.7	535.5	558.4	563.5
132.5°	541.6	548.2	564.3	583.9	589.7
135°	570.9	579.2	590.9	611.6	617.4
137.5°	604.2	611.0	617.6	636.2	640.3
140°	633.7	639.5	645.3	661.6	664.7
142.5°	664.0	669.8	672.1	685.0	687.1
145°	691.8	697.1	701.6	708.5	710.5
147.5°	717.5	724.3	727.3	729.8	729.9
150°	744.0	748.5	751.5	753.8	751.5
152.5°	767.4	772.0	775.8	778.8	775.8
155°	790.9	793.2	795.4	799.2	797.0
157.5°	811.3	812.8	814.4	819.7	815.9
160°	829.5	831.0	831.8	836.3	833.3
162.5°	846.2	846.2	846.9	852.2	848.4
165°	860.5	859.8	859.8	865.1	861.3
167.5°	873.4	871.1	871.1	876.4	872.6
170°	883.2	881.0	880.2	885.5	881.0
172.5°	890.0	887.8	887.0	892.3	887.8
175°	895.3	893.1	891.6	896.9	892.3
177.5°	898.4	896.1	894.6	899.1	894.6
180°	896.9	896.9	896.9	896.9	896.9

(END OF REPORT)