

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: P1009572

Luminaire Tested: S122DIP-B865D725UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009572
REPORT IS A COMBINATION OF REPORTS P984906 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB27-4F0-XX-W2A-F4
Description: Define 2 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

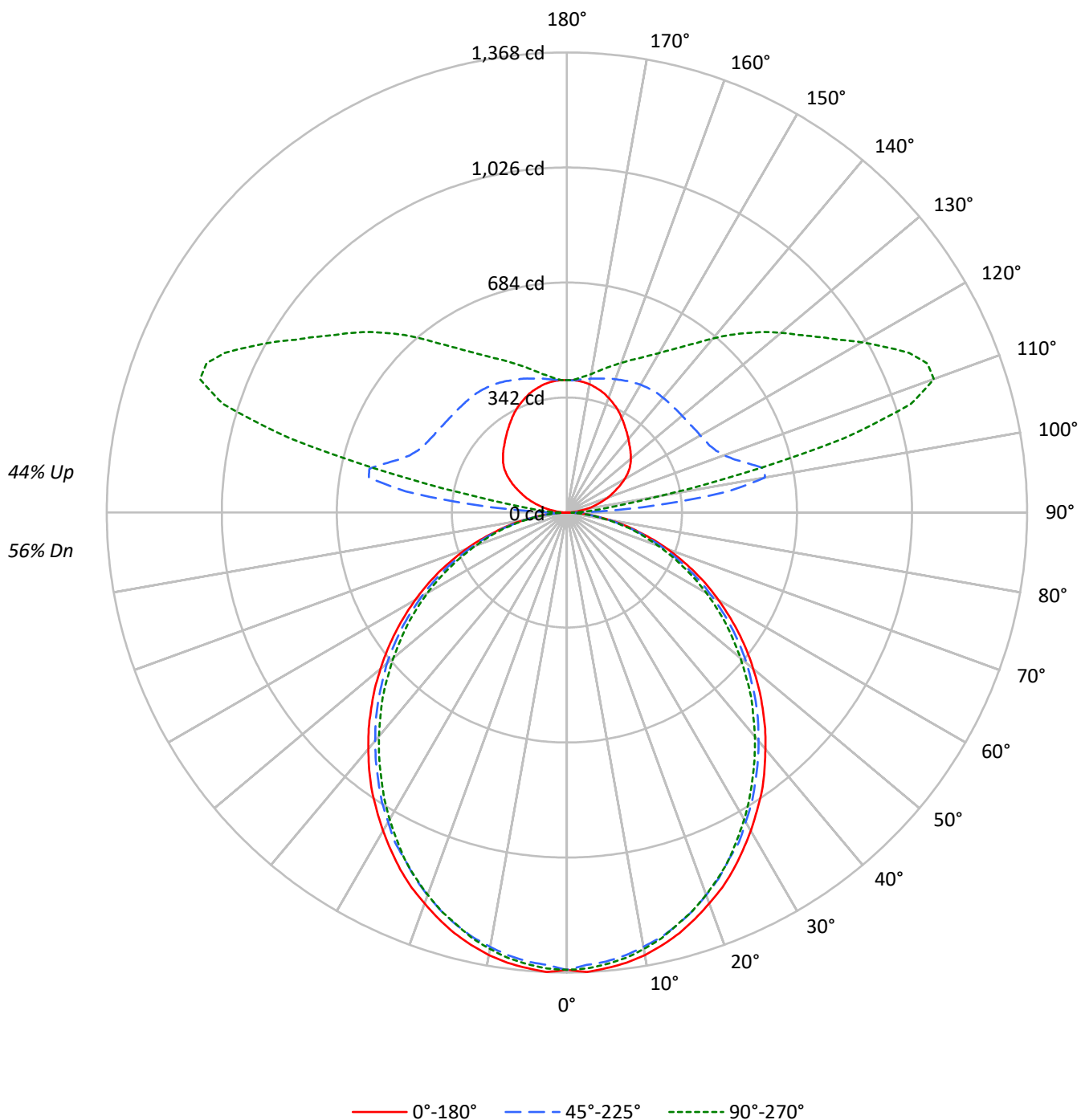
Lumens per Lamp: N/A
Luminaire Lumens: 6206.1 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
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	109	109	109	109	101	101	101	101	87	87	87	73	73	73	61	61	61
1	99	95	91	87	92	88	85	82	76	73	71	65	63	61	54	53	52
2	90	83	77	71	84	77	72	67	67	62	59	57	54	51	48	46	44
3	82	73	65	59	76	68	61	56	59	54	50	50	46	43	42	40	37
4	75	64	56	50	70	60	53	48	52	47	42	45	41	37	38	35	32
5	69	57	49	43	64	54	46	41	47	41	37	40	36	32	34	31	28
6	64	52	43	37	59	48	41	36	42	36	32	36	32	28	31	27	25
7	59	47	39	33	55	44	36	31	38	32	28	33	28	25	28	25	22
8	55	42	35	29	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	31	26	47	36	30	25	32	26	22	28	23	20	24	20	18
10	48	36	28	23	44	33	27	22	30	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21528	21528	21528
5°	21563	20520	20374
10°	21386	19585	19195
15°	21074	18642	17956
20°	20651	17617	16783
25°	20229	16547	15611
30°	19697	15541	14381
35°	19197	14479	13172
40°	18579	13433	12031
45°	17963	12395	10911
50°	17292	11337	9750
55°	16587	10207	8649
60°	15794	8984	7505
65°	14924	7740	6302
70°	13819	6380	5090
75°	12290	4917	3930
80°	10443	3341	2529
85°	7571	1555	1077

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 17963 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	2.1
10°-20°	360.1	5.8
20°-30°	529.2	8.5
30°-40°	614.7	9.9
40°-50°	613.9	9.9
50°-60°	535.3	8.6
60°-70°	395.7	6.4
70°-80°	223.9	3.6
80°-90°	61.6	1.0
90°-100°	159.5	2.6
100°-110°	539.3	8.7
110°-120°	566.9	9.1
120°-130°	466.2	7.5
130°-140°	374.6	6.0
140°-150°	283.0	4.6
150°-160°	198.9	3.2
160°-170°	117.1	1.9
170°-180°	38.1	0.6
0°-30°	1017.4	16.4
0°-40°	1632.1	26.3
0°-60°	2781.3	44.8
0°-90°	3462.5	55.8
90°-120°	1265.7	20.4
90°-150°	2389.4	38.5
90°-180°	2744.0	44.2
0°-180°	6206.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1360	1355	1340	1351	1348	129
15°	1295	1287	1270	1275	1268	365
25°	1172	1161	1139	1142	1139	539
35°	1011	998	977	969	962	631
45°	822	813	794	779	774	635
55°	622	615	599	583	577	557
65°	420	412	399	387	380	415
75°	220	217	210	203	205	234
85°	54	52	51	47	46	60
90°	1	10	26	25	25	5
95°	26	65	297	112	86	27
105°	92	139	561	1002	853	98
115°	163	205	469	968	1122	161
125°	227	269	451	784	910	202
135°	266	318	446	659	754	206
145°	304	350	444	551	602	191
155°	346	374	431	487	506	159
165°	377	388	412	437	444	106
175°	393	393	396	402	400	37
180°	394	394	394	394	394	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1367.8	1361.3	1346.9	1360.0	1357.4
5°	1360.0	1354.7	1340.4	1350.8	1348.2
7.5°	1350.8	1343.0	1328.6	1339.1	1336.4
10°	1336.4	1327.3	1311.6	1322.1	1318.1
12.5°	1316.8	1309.0	1293.3	1299.8	1297.2
15°	1294.6	1286.7	1269.7	1275.0	1268.4
17.5°	1267.1	1259.3	1242.3	1248.8	1242.3
20°	1237.1	1229.2	1210.9	1214.8	1209.6
22.5°	1207.0	1195.2	1178.2	1178.2	1175.6
25°	1171.7	1161.2	1139.0	1141.6	1139.0
27.5°	1132.4	1123.3	1106.3	1102.4	1095.8
30°	1093.2	1082.8	1063.1	1059.2	1054.0
32.5°	1051.4	1043.5	1022.6	1014.8	1009.5
35°	1010.8	997.8	976.8	969.0	962.4
37.5°	965.1	953.3	932.4	923.2	916.7
40°	918.0	907.5	886.6	874.8	869.6
42.5°	872.2	861.8	840.8	827.8	819.9
45°	822.5	813.4	793.8	779.4	774.1
47.5°	774.1	765.0	744.1	729.7	721.8
50°	723.1	716.6	698.3	680.0	673.5
52.5°	673.5	664.3	647.3	632.9	623.8
55°	622.5	614.6	598.9	583.2	576.7
57.5°	571.5	564.9	547.9	532.2	527.0
60°	520.5	515.2	496.9	482.5	478.6
62.5°	470.8	461.6	448.5	435.5	430.2
65°	419.8	411.9	398.8	387.1	380.5
67.5°	367.5	360.9	349.1	340.0	334.8
70°	319.1	313.8	302.1	292.9	287.7
72.5°	269.4	264.1	257.6	248.5	244.5
75°	219.7	217.1	210.5	202.7	205.3
77.5°	175.2	170.0	167.4	163.5	159.5
80°	130.8	129.5	126.8	122.9	120.3
82.5°	88.9	88.9	87.6	82.4	82.4
85°	53.6	52.3	51.0	47.1	45.8
87.5°	23.5	20.9	18.3	14.4	13.1
90°	0.8	10.2	25.7	24.6	25.0
92.5°	11.4	36.0	116.5	53.8	46.2
95°	26.5	65.1	296.7	112.0	86.3
97.5°	39.4	85.9	483.6	224.8	144.5
100°	58.3	105.2	597.8	447.6	270.9
102.5°	75.7	122.6	601.6	756.8	528.2
105°	92.3	139.2	560.8	1002.3	852.9
107.5°	110.5	155.9	522.9	1091.2	1071.6
110°	128.7	172.9	497.2	1076.9	1160.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	145.3	189.2	480.5	1028.1	1159.4
115°	162.7	205.4	469.2	968.3	1122.3
117.5°	180.9	221.7	463.1	911.2	1066.3
120°	197.5	237.6	457.8	860.0	1012.6
122.5°	213.4	253.9	454.8	820.4	956.6
125°	227.0	268.6	451.0	784.4	910.4
127.5°	238.4	282.6	448.8	753.8	867.3
130°	248.2	295.1	447.2	722.7	831.7
132.5°	257.3	307.2	446.5	690.6	794.6
135°	266.4	317.8	445.7	659.2	754.5
137.5°	274.7	327.0	445.7	627.3	715.9
140°	284.5	335.2	445.0	599.4	675.8
142.5°	294.4	342.0	445.0	572.4	635.7
145°	304.2	349.6	443.5	550.6	602.4
147.5°	314.8	355.6	441.2	531.2	572.9
150°	325.4	361.7	438.9	514.6	547.1
152.5°	336.0	367.8	435.1	500.6	525.2
155°	345.8	373.5	430.6	487.0	506.3
157.5°	354.2	378.0	426.1	474.1	489.6
160°	362.5	382.5	421.5	461.2	473.7
162.5°	370.8	386.0	417.7	449.1	458.6
165°	376.9	388.2	412.4	437.4	444.2
167.5°	382.2	390.5	407.9	426.8	430.6
170°	387.5	391.6	404.1	417.0	418.5
172.5°	390.5	392.8	399.6	408.3	408.7
175°	392.8	393.2	396.5	401.5	400.3
177.5°	394.3	393.5	393.5	396.5	394.3
180°	393.5	393.5	393.5	393.5	393.5

(END OF REPORT)