

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: P1009598

Luminaire Tested: S122DIP-B865D725UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009598
REPORT IS A COMBINATION OF REPORTS P984947 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB40-4F0-XX-W2A-F1
Description: Define 2 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

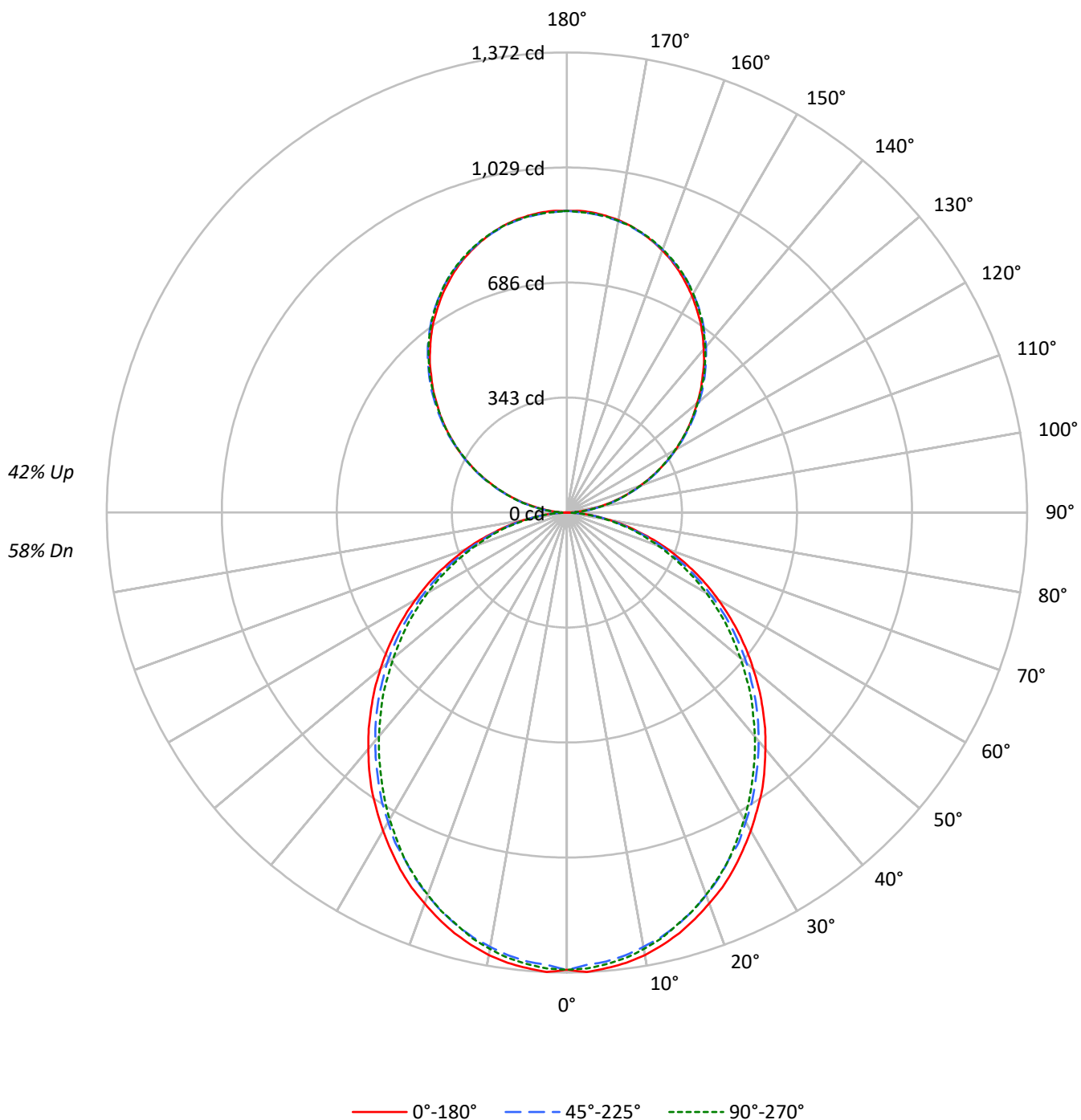
Lumens per Lamp: N/A
Luminaire Lumens: 5987.0 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	95	91	88	93	89	85	82	77	74	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	57	60	54	50	51	48	44	44	41	38
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33
5	70	58	50	43	65	54	47	41	47	42	37	41	37	33	35	32	29
6	64	52	44	38	60	49	41	36	43	37	32	37	33	29	32	28	25
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23
8	55	43	35	29	51	40	33	28	35	30	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18
10	48	36	28	24	45	34	27	23	30	24	21	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21590	21590	21590
5°	21625	20578	20433
10°	21449	19641	19251
15°	21135	18696	18008
20°	20710	17668	16831
25°	20287	16595	15656
30°	19755	15586	14422
35°	19254	14522	13210
40°	18632	13472	12065
45°	18016	12431	10943
50°	17342	11370	9778
55°	16635	10236	8673
60°	15840	9011	7527
65°	14966	7763	6320
70°	13858	6397	5104
75°	12324	4931	3941
80°	10467	3352	2537
85°	7600	1558	1079

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18016 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.1
10°-20°	361.2	6.0
20°-30°	530.8	8.9
30°-40°	616.5	10.3
40°-50°	615.7	10.3
50°-60°	536.9	9.0
60°-70°	396.9	6.6
70°-80°	224.5	3.8
80°-90°	61.8	1.0
90°-100°	55.6	0.9
100°-110°	176.9	3.0
110°-120°	302.6	5.1
120°-130°	398.0	6.6
130°-140°	446.8	7.5
140°-150°	438.1	7.3
150°-160°	367.5	6.1
160°-170°	243.7	4.1
170°-180°	85.2	1.4
0°-30°	1020.3	17.0
0°-40°	1636.8	27.3
0°-60°	2789.4	46.6
0°-90°	3472.6	58.0
90°-120°	535.2	8.9
90°-150°	1818.0	30.4
90°-180°	2514.0	42.0
0°-180°	5987.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1364	1364	1364	1364	1364	
5°	1364	1359	1344	1355	1352	129
15°	1298	1290	1273	1279	1272	366
25°	1175	1165	1142	1145	1142	541
35°	1014	1001	980	972	965	633
45°	825	816	796	782	776	637
55°	624	616	601	585	578	558
65°	421	413	400	388	382	416
75°	220	218	211	203	206	235
85°	54	52	51	47	46	60
90°	1	10	27	25	26	6
95°	40	47	49	49	47	44
105°	163	166	167	168	168	172
115°	304	308	307	306	304	300
125°	442	448	446	444	443	395
135°	572	580	581	581	578	442
145°	694	699	704	704	701	433
155°	793	795	798	802	799	365
165°	863	862	862	868	864	243
175°	898	896	894	899	895	85
180°	899	899	899	899	899	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1363.9	1363.9	1363.9	1363.9	1363.9
2.5°	1371.8	1365.2	1350.8	1363.9	1361.3
5°	1363.9	1358.7	1344.2	1354.7	1352.1
7.5°	1354.7	1346.9	1332.4	1342.9	1340.3
10°	1340.3	1331.1	1315.4	1325.9	1321.9
12.5°	1320.6	1312.8	1297.0	1303.6	1301.0
15°	1298.3	1290.5	1273.4	1278.7	1272.1
17.5°	1270.8	1262.9	1245.9	1252.4	1245.9
20°	1240.6	1232.8	1214.4	1218.3	1213.1
22.5°	1210.5	1198.7	1181.6	1181.6	1179.0
25°	1175.1	1164.6	1142.3	1144.9	1142.3
27.5°	1135.7	1126.5	1109.5	1105.6	1099.0
30°	1096.4	1085.9	1066.2	1062.3	1057.0
32.5°	1054.4	1046.5	1025.6	1017.7	1012.4
35°	1013.8	1000.6	979.7	971.8	965.2
37.5°	967.9	956.0	935.1	925.9	919.3
40°	920.6	910.1	889.2	877.4	872.1
42.5°	874.7	864.2	843.3	830.1	822.3
45°	824.9	815.7	796.1	781.6	776.4
47.5°	776.4	767.2	746.2	731.8	723.9
50°	725.2	718.7	700.3	682.0	675.4
52.5°	675.4	666.2	649.2	634.7	625.6
55°	624.3	616.4	600.6	584.9	578.3
57.5°	573.1	566.5	549.5	533.8	528.5
60°	522.0	516.7	498.4	483.9	480.0
62.5°	472.1	462.9	449.8	436.7	431.5
65°	421.0	413.1	400.0	388.2	381.6
67.5°	368.5	362.0	350.2	341.0	335.7
70°	320.0	314.7	302.9	293.8	288.5
72.5°	270.2	264.9	258.4	249.2	245.2
75°	220.3	217.7	211.1	203.3	205.9
77.5°	175.7	170.5	167.9	163.9	160.0
80°	131.1	129.8	127.2	123.3	120.7
82.5°	89.2	89.2	87.9	82.6	82.6
85°	53.8	52.5	51.1	47.2	45.9
87.5°	23.6	21.0	18.4	14.4	13.1
90°	0.8	9.9	26.6	25.0	25.8
92.5°	16.7	22.8	23.5	24.3	24.3
95°	39.5	47.1	48.6	48.6	47.1
97.5°	66.0	72.9	75.9	75.9	75.9
100°	96.4	102.5	104.7	104.7	104.0
102.5°	128.3	132.8	135.9	136.6	135.9
105°	163.2	165.5	167.0	168.5	168.5
107.5°	198.1	201.1	201.1	201.9	198.1
110°	231.5	236.0	236.0	236.0	233.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.9	272.5	271.7	269.4	267.9
115°	303.6	308.1	306.6	305.9	303.6
117.5°	339.3	345.3	341.5	339.3	337.0
120°	374.9	381.0	374.9	374.9	372.6
122.5°	407.6	415.1	411.4	409.1	407.6
125°	441.7	448.5	446.3	444.0	443.2
127.5°	475.1	483.5	480.4	477.4	475.1
130°	506.2	516.1	514.6	513.1	510.0
132.5°	541.1	548.7	549.5	545.7	543.4
135°	571.5	579.8	581.4	580.6	578.3
137.5°	604.9	611.7	613.2	612.5	609.4
140°	634.5	641.3	645.1	645.1	642.1
142.5°	664.8	671.7	674.0	674.7	671.7
145°	693.7	699.0	703.6	704.3	701.3
147.5°	719.5	726.3	729.4	730.9	727.8
150°	746.1	750.6	753.6	755.9	753.6
152.5°	769.6	774.1	777.9	781.0	777.9
155°	793.1	795.4	797.7	801.5	799.2
157.5°	813.6	815.1	816.6	821.9	818.2
160°	831.8	833.3	834.1	838.6	835.6
162.5°	848.5	848.5	849.3	854.6	850.8
165°	862.9	862.2	862.2	867.5	863.7
167.5°	875.8	873.6	873.6	878.9	875.1
170°	885.7	883.4	882.7	888.0	883.4
172.5°	892.5	890.3	889.5	894.8	890.3
175°	897.8	895.6	894.0	899.4	894.8
177.5°	900.9	898.6	897.1	901.6	897.1
180°	899.4	899.4	899.4	899.4	899.4

(END OF REPORT)