

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: P1009588

Luminaire Tested: S122DIP-B865D725UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009588
REPORT IS A COMBINATION OF REPORTS P984937 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D725UB35-4F0-XX-W2A-F
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

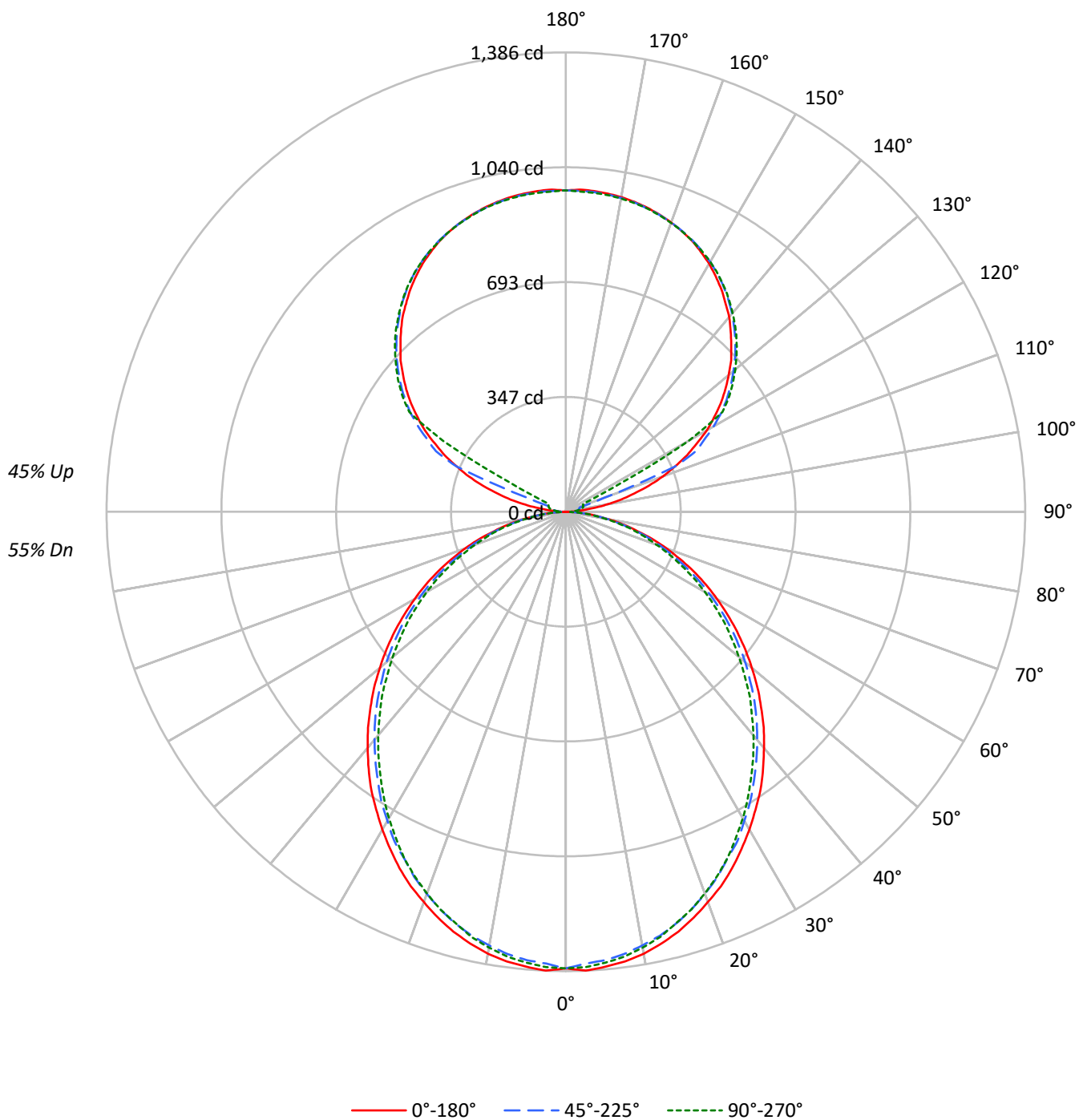
Lumens per Lamp: N/A
Luminaire Lumens: 6349.0 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61
1	99	95	91	87	92	88	85	82	76	73	71	64	63	61	54	53	51
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43
3	82	73	65	59	76	68	61	56	59	54	49	50	46	43	42	39	37
4	75	64	56	50	70	60	53	47	52	46	42	45	40	37	38	34	32
5	69	57	49	43	64	54	46	41	47	41	36	40	36	32	34	30	28
6	64	51	43	37	59	48	41	36	42	36	32	36	32	28	31	27	24
7	59	47	38	33	55	44	36	31	38	32	28	33	28	25	28	24	22
8	55	42	34	29	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	18
10	48	35	28	23	44	33	27	22	29	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21808	21808	21808
5°	21844	20787	20638
10°	21665	19840	19446
15°	21348	18885	18190
20°	20918	17847	17001
25°	20491	16763	15814
30°	19953	15744	14568
35°	19447	14668	13344
40°	18820	13607	12187
45°	18197	12556	11053
50°	17517	11485	9876
55°	16800	10340	8762
60°	15998	9101	7602
65°	15116	7841	6385
70°	13997	6463	5155
75°	12447	4982	3981
80°	10578	3386	2563
85°	7670	1576	1091

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 18197 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.7	2.0
10°-20°	364.8	5.7
20°-30°	536.1	8.4
30°-40°	622.7	9.8
40°-50°	621.9	9.8
50°-60°	542.3	8.5
60°-70°	400.8	6.3
70°-80°	226.8	3.6
80°-90°	61.6	1.0
90°-100°	32.0	0.5
100°-110°	119.2	1.9
110°-120°	316.1	5.0
120°-130°	524.2	8.3
130°-140°	556.8	8.8
140°-150°	517.5	8.2
150°-160°	416.1	6.6
160°-170°	268.1	4.2
170°-180°	92.3	1.5
0°-30°	1030.6	16.2
0°-40°	1653.3	26.0
0°-60°	2817.5	44.4
0°-90°	3506.7	55.2
90°-120°	467.2	7.4
90°-150°	2065.8	32.5
90°-180°	2842.0	44.8
0°-180°	6349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1378	1378	1378	1378	1378	
5°	1378	1372	1358	1368	1366	131
15°	1311	1304	1286	1292	1285	369
25°	1187	1176	1154	1156	1154	546
35°	1024	1011	990	982	975	639
45°	833	824	804	790	784	643
55°	630	623	607	591	584	564
65°	425	417	404	392	386	420
75°	222	220	213	205	208	237
85°	54	53	52	48	46	61
90°	1	8	14	18	19	6
95°	46	22	27	31	30	54
105°	213	234	43	50	53	228
115°	403	415	433	108	58	397
125°	570	580	593	598	600	509
135°	706	717	723	730	729	545
145°	819	818	830	835	831	512
155°	902	895	904	908	902	415
165°	950	946	948	953	948	268
175°	972	967	968	973	966	92
180°	970	970	970	970	970	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1377.7	1377.7	1377.7	1377.7	1377.7
2.5°	1385.6	1379.0	1364.4	1377.7	1375.0
5°	1377.7	1372.4	1357.8	1368.4	1365.7
7.5°	1368.4	1360.4	1345.9	1356.5	1353.8
10°	1353.8	1344.5	1328.7	1339.2	1335.3
12.5°	1334.0	1326.0	1310.1	1316.7	1314.1
15°	1311.4	1303.5	1286.3	1291.6	1284.9
17.5°	1283.6	1275.7	1258.4	1265.1	1258.4
20°	1253.1	1245.2	1226.7	1230.6	1225.3
22.5°	1222.7	1210.8	1193.5	1193.5	1190.9
25°	1186.9	1176.3	1153.8	1156.4	1153.8
27.5°	1147.2	1137.9	1120.7	1116.7	1110.1
30°	1107.4	1096.8	1077.0	1073.0	1067.7
32.5°	1065.0	1057.1	1035.9	1028.0	1022.7
35°	1024.0	1010.7	989.5	981.6	975.0
37.5°	977.6	965.7	944.5	935.2	928.6
40°	929.9	919.3	898.1	886.2	880.9
42.5°	883.6	873.0	851.8	838.5	830.6
45°	833.2	823.9	804.1	789.5	784.2
47.5°	784.2	774.9	753.7	739.2	731.2
50°	732.5	725.9	707.4	688.8	682.2
52.5°	682.2	672.9	655.7	641.1	631.9
55°	630.5	622.6	606.7	590.8	584.2
57.5°	578.9	572.3	555.0	539.1	533.8
60°	527.2	521.9	503.4	488.8	484.8
62.5°	476.9	467.6	454.4	441.1	435.8
65°	425.2	417.3	404.0	392.1	385.5
67.5°	372.2	365.6	353.7	344.4	339.1
70°	323.2	317.9	306.0	296.7	291.4
72.5°	272.9	267.6	261.0	251.7	247.7
75°	222.5	219.9	213.3	205.3	208.0
77.5°	177.5	172.2	169.6	165.6	161.6
80°	132.5	131.1	128.5	124.5	121.9
82.5°	90.1	90.1	88.8	83.5	83.5
85°	54.3	53.0	51.7	47.7	46.4
87.5°	23.8	21.2	18.5	14.6	13.2
90°	0.7	8.4	14.0	17.5	18.9
92.5°	17.5	14.7	16.8	18.2	18.9
95°	45.6	22.4	27.4	30.9	30.2
97.5°	82.1	24.6	35.8	37.9	38.6
100°	124.2	28.1	40.0	45.6	47.0
102.5°	170.5	169.1	41.4	49.1	51.2
105°	213.3	234.3	42.8	50.5	53.3
107.5°	263.1	280.6	44.2	51.9	54.7
110°	310.8	325.5	122.8	52.6	55.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	355.7	368.3	356.4	54.0	56.1
115°	403.4	415.3	432.8	108.0	57.5
117.5°	444.8	458.8	470.7	370.4	186.6
120°	491.1	501.6	514.2	522.6	427.9
122.5°	530.4	541.6	555.6	559.8	560.5
125°	570.3	579.5	592.8	597.7	599.8
127.5°	606.8	616.6	627.2	634.2	634.9
130°	641.2	652.4	660.1	667.9	667.2
132.5°	676.3	685.4	693.1	699.4	698.7
135°	705.7	717.0	723.3	730.3	728.9
137.5°	736.6	745.0	752.0	759.1	757.0
140°	766.8	772.4	780.1	786.4	782.9
142.5°	792.0	796.9	806.1	811.7	808.2
145°	818.7	818.0	829.9	834.8	831.3
147.5°	841.8	839.7	851.7	855.2	852.4
150°	864.3	859.4	870.6	874.8	871.3
152.5°	883.2	877.6	888.1	892.4	887.4
155°	901.5	895.2	903.6	907.8	902.2
157.5°	916.2	910.6	916.9	921.8	916.2
160°	928.8	924.6	928.8	933.0	928.1
162.5°	940.1	935.8	939.4	944.3	938.0
165°	949.9	945.7	947.8	952.7	947.8
167.5°	957.6	953.4	955.5	960.4	954.1
170°	963.9	959.7	961.1	966.0	959.7
172.5°	968.1	963.9	965.3	970.2	963.9
175°	971.6	966.7	968.1	973.0	966.0
177.5°	973.0	968.1	968.8	973.7	967.4
180°	969.5	969.5	969.5	969.5	969.5

(END OF REPORT)