

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: P1009590

Luminaire Tested: S122DIP-B865D725UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009590
REPORT IS A COMBINATION OF REPORTS P984939 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-F4
Description: Define 2 Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

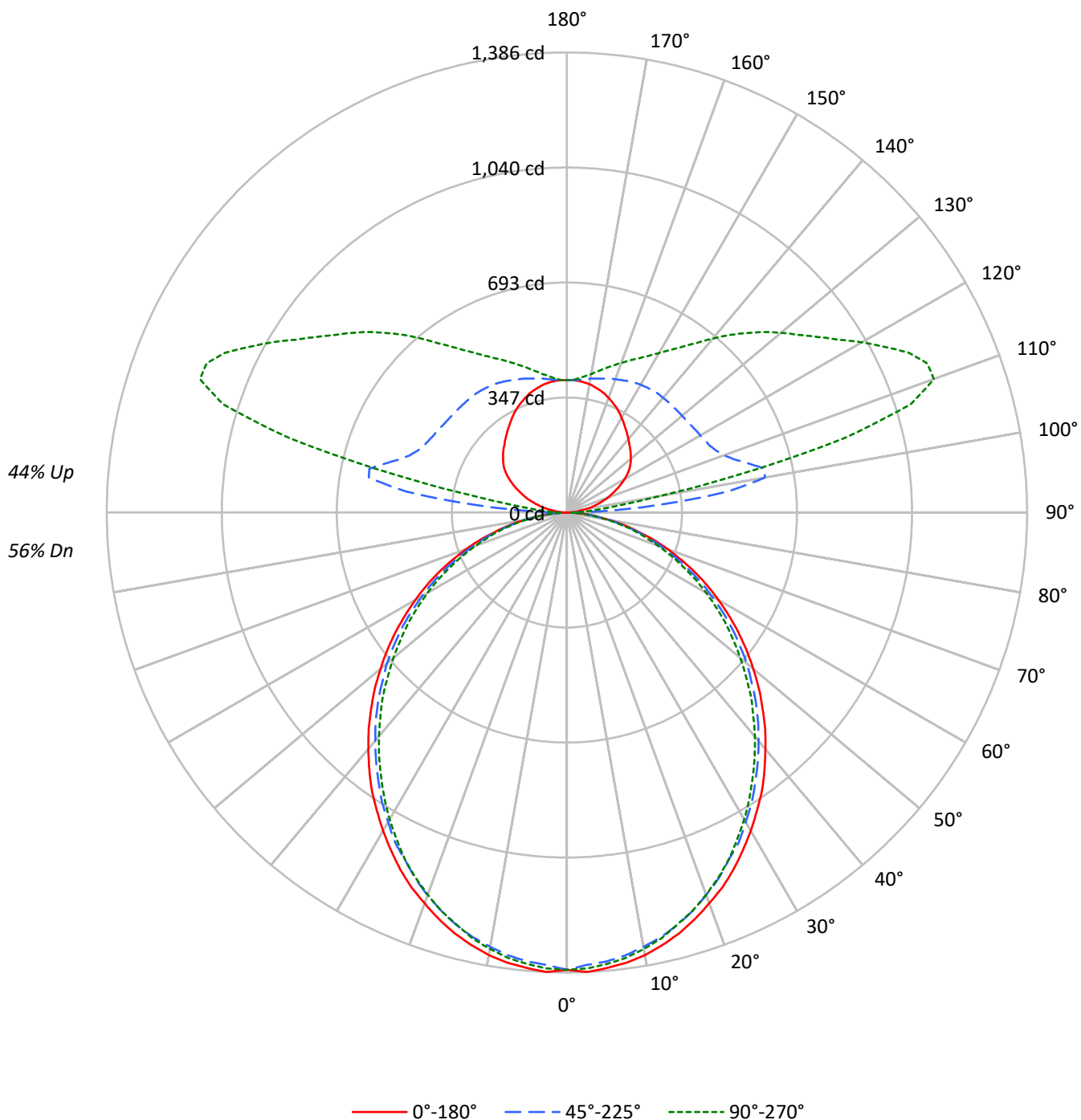
Lumens per Lamp: N/A
Luminaire Lumens: 6287.2 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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	2.1
10°-20°	364.8	5.8
20°-30°	536.1	8.5
30°-40°	622.7	9.9
40°-50°	621.9	9.9
50°-60°	542.3	8.6
60°-70°	400.8	6.4
70°-80°	226.8	3.6
80°-90°	62.4	1.0
90°-100°	161.6	2.6
100°-110°	546.4	8.7
110°-120°	574.3	9.1
120°-130°	472.3	7.5
130°-140°	379.5	6.0
140°-150°	286.7	4.6
150°-160°	201.6	3.2
160°-170°	118.7	1.9
170°-180°	38.6	0.6
0°-30°	1030.6	16.4
0°-40°	1653.3	26.3
0°-60°	2817.5	44.8
0°-90°	3507.5	55.8
90°-120°	1282.3	20.4
90°-150°	2420.8	38.5
90°-180°	2780.0	44.2
0°-180°	6287.2	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	10	26	25	25	5
95°	27	66	300	113	87	28
105°	94	141	568	1015	864	99
115°	165	208	475	981	1137	163
125°	230	272	457	795	922	204
135°	270	322	452	668	764	208
145°	308	354	449	558	610	193
155°	350	378	436	493	513	161
165°	382	393	418	443	450	108
175°	398	398	402	407	406	38
180°	399	399	399	399	399	

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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°	0.8	10.4	26.1	24.9	25.3
92.5°	11.5	36.4	118.1	54.4	46.8
95°	26.8	65.9	300.5	113.4	87.4
97.5°	39.9	87.1	489.9	227.7	146.4
100°	59.0	106.6	605.7	453.5	274.5
102.5°	76.7	124.2	609.5	766.7	535.2
105°	93.5	141.0	568.1	1015.4	864.1
107.5°	111.9	158.0	529.8	1105.6	1085.6
110°	130.3	175.2	503.7	1091.0	1176.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	147.2	191.7	486.9	1041.6	1174.6
115°	164.8	208.2	475.4	981.0	1137.0
117.5°	183.2	224.6	469.2	923.1	1080.3
120°	200.1	240.8	463.9	871.4	1025.8
122.5°	216.2	257.2	460.8	831.1	969.1
125°	230.0	272.2	457.0	794.6	922.3
127.5°	241.5	286.4	454.7	763.6	878.6
130°	251.5	299.0	453.1	732.2	842.6
132.5°	260.7	311.2	452.4	699.6	805.0
135°	269.9	322.0	451.6	667.8	764.4
137.5°	278.3	331.2	451.6	635.6	725.3
140°	288.3	339.6	450.8	607.2	684.7
142.5°	298.2	346.5	450.8	580.0	644.0
145°	308.2	354.2	449.3	557.8	610.3
147.5°	318.9	360.4	447.0	538.2	580.4
150°	329.7	366.5	444.7	521.4	554.3
152.5°	340.4	372.6	440.9	507.2	532.1
155°	350.4	378.4	436.3	493.4	512.9
157.5°	358.8	383.0	431.7	480.4	496.1
160°	367.2	387.6	427.1	467.3	480.0
162.5°	375.7	391.0	423.2	455.0	464.6
165°	381.8	393.3	417.9	443.2	450.1
167.5°	387.2	395.6	413.3	432.4	436.3
170°	392.5	396.8	409.4	422.4	424.0
172.5°	395.6	397.9	404.8	413.6	414.0
175°	397.9	398.3	401.7	406.7	405.6
177.5°	399.4	398.7	398.7	401.7	399.4
180°	398.7	398.7	398.7	398.7	398.7

(END OF REPORT)