

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: P1009543

Luminaire Tested: S122DIP-B865D530UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1009543
REPORT IS A COMBINATION OF REPORTS P984877 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIP-B865D530UB35-4F0-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

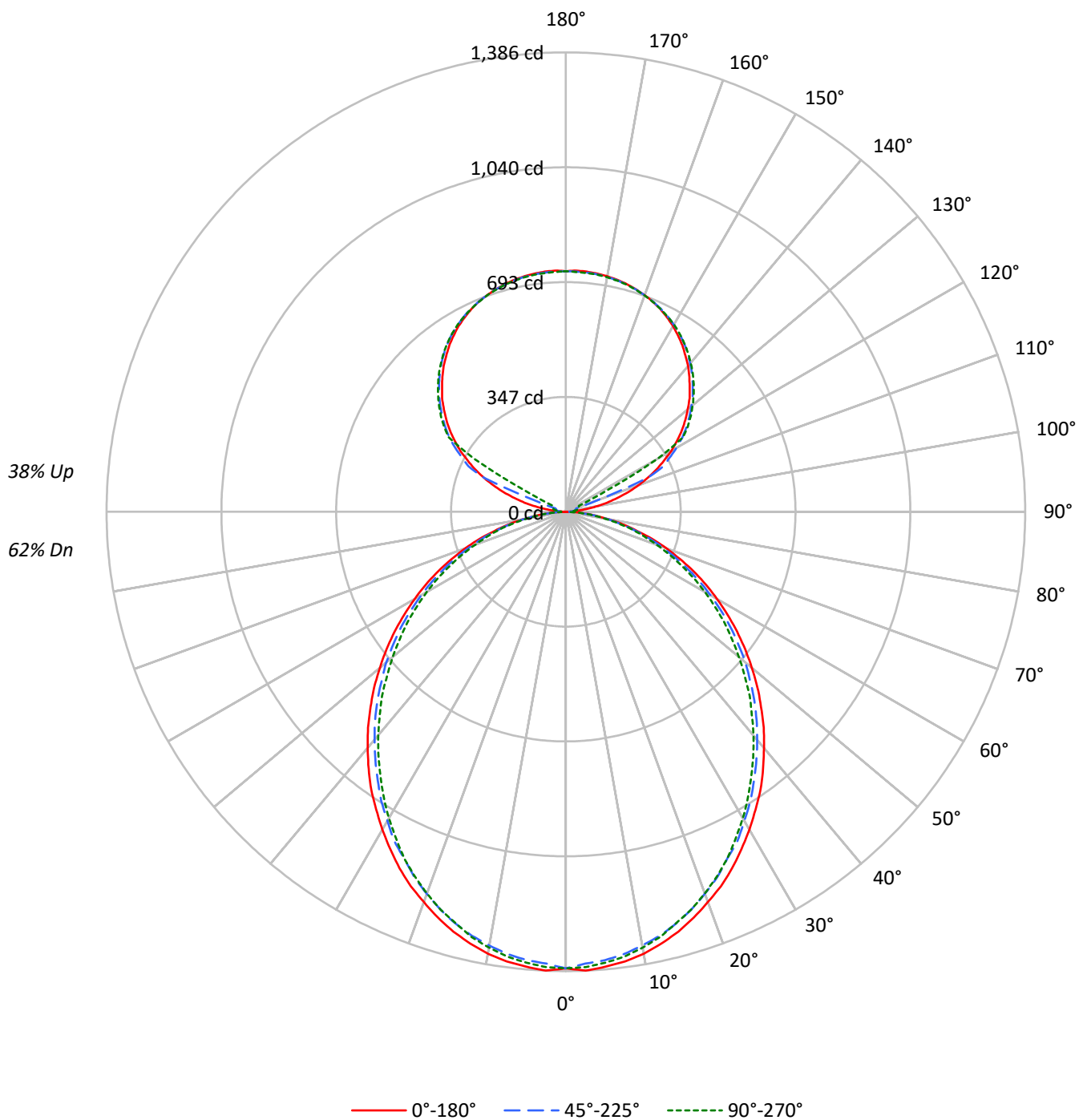
Lumens per Lamp: N/A
Luminaire Lumens: 5634.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	101	96	92	89	94	90	87	84	79	77	74	69	67	65	60	58	57
2	92	84	78	72	86	79	73	69	69	65	61	61	57	55	52	50	48
3	84	74	66	60	78	69	63	57	61	56	52	54	50	46	46	43	41
4	76	65	57	51	71	62	54	49	54	49	44	48	43	40	42	38	35
5	70	58	50	44	66	55	48	42	49	43	38	43	38	34	37	34	31
6	65	52	44	38	61	50	42	37	44	38	33	39	34	30	34	30	27
7	60	47	39	34	56	45	37	32	40	34	29	35	30	27	31	27	24
8	56	43	35	30	52	41	34	29	37	31	26	32	28	24	29	25	22
9	52	39	32	27	49	37	30	26	34	28	24	30	25	22	26	22	20
10	49	36	29	24	46	34	28	23	31	25	21	28	23	20	25	21	18

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	2.3
10°-20°	364.8	6.5
20°-30°	536.1	9.5
30°-40°	622.7	11.1
40°-50°	621.9	11.0
50°-60°	542.3	9.6
60°-70°	400.8	7.1
70°-80°	226.8	4.0
80°-90°	61.1	1.1
90°-100°	23.9	0.4
100°-110°	89.2	1.6
110°-120°	236.6	4.2
120°-130°	392.4	7.0
130°-140°	416.9	7.4
140°-150°	387.4	6.9
150°-160°	311.5	5.5
160°-170°	200.7	3.6
170°-180°	69.1	1.2
0°-30°	1030.6	18.3
0°-40°	1653.3	29.3
0°-60°	2817.5	50.0
0°-90°	3506.3	62.2
90°-120°	349.8	6.2
90°-150°	1546.5	27.4
90°-180°	2128.0	37.8
0°-180°	5634.0	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°	0	6	10	13	14	5
95°	34	17	20	23	23	40
105°	160	175	32	38	40	171
115°	302	311	324	81	43	297
125°	427	434	444	447	449	381
135°	528	537	541	547	546	408
145°	613	612	621	625	622	383
155°	675	670	676	680	675	311
165°	711	708	710	713	710	201
175°	727	724	725	728	723	69
180°	726	726	726	726	726	

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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°	0.5	6.3	10.5	13.1	14.2
92.5°	13.1	11.0	12.6	13.7	14.2
95°	34.1	16.8	20.5	23.1	22.6
97.5°	61.4	18.4	26.8	28.4	28.9
100°	93.0	21.0	29.9	34.1	35.2
102.5°	127.6	126.6	31.0	36.8	38.3
105°	159.6	175.4	32.0	37.8	39.9
107.5°	196.9	210.1	33.1	38.9	41.0
110°	232.6	243.7	91.9	39.4	41.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266.3	275.7	266.8	40.4	42.0
115°	302.0	310.9	324.0	80.9	43.1
117.5°	333.0	343.5	352.4	277.3	139.7
120°	367.6	375.5	384.9	391.2	320.4
122.5°	397.0	405.4	415.9	419.1	419.6
125°	427.0	433.8	443.8	447.4	449.0
127.5°	454.3	461.6	469.5	474.7	475.3
130°	480.0	488.4	494.2	500.0	499.4
132.5°	506.3	513.1	518.9	523.6	523.1
135°	528.3	536.7	541.4	546.7	545.6
137.5°	551.4	557.7	563.0	568.2	566.7
140°	574.0	578.2	584.0	588.7	586.1
142.5°	592.9	596.6	603.4	607.6	605.0
145°	612.9	612.3	621.3	624.9	622.3
147.5°	630.2	628.6	637.5	640.2	638.1
150°	647.0	643.3	651.7	654.9	652.3
152.5°	661.2	657.0	664.9	668.0	664.3
155°	674.8	670.1	676.4	679.6	675.4
157.5°	685.9	681.7	686.4	690.1	685.9
160°	695.3	692.2	695.3	698.5	694.8
162.5°	703.7	700.6	703.2	706.9	702.1
165°	711.1	707.9	709.5	713.2	709.5
167.5°	716.8	713.7	715.3	718.9	714.2
170°	721.6	718.4	719.5	723.2	718.4
172.5°	724.7	721.6	722.6	726.3	721.6
175°	727.4	723.7	724.7	728.4	723.2
177.5°	728.4	724.7	725.3	728.9	724.2
180°	725.8	725.8	725.8	725.8	725.8

(END OF REPORT)