

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: P1027522

Luminaire Tested: S125DIP-B1090D850UB50-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027522
REPORT IS A COMBINATION OF REPORTS P1001514 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB50-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

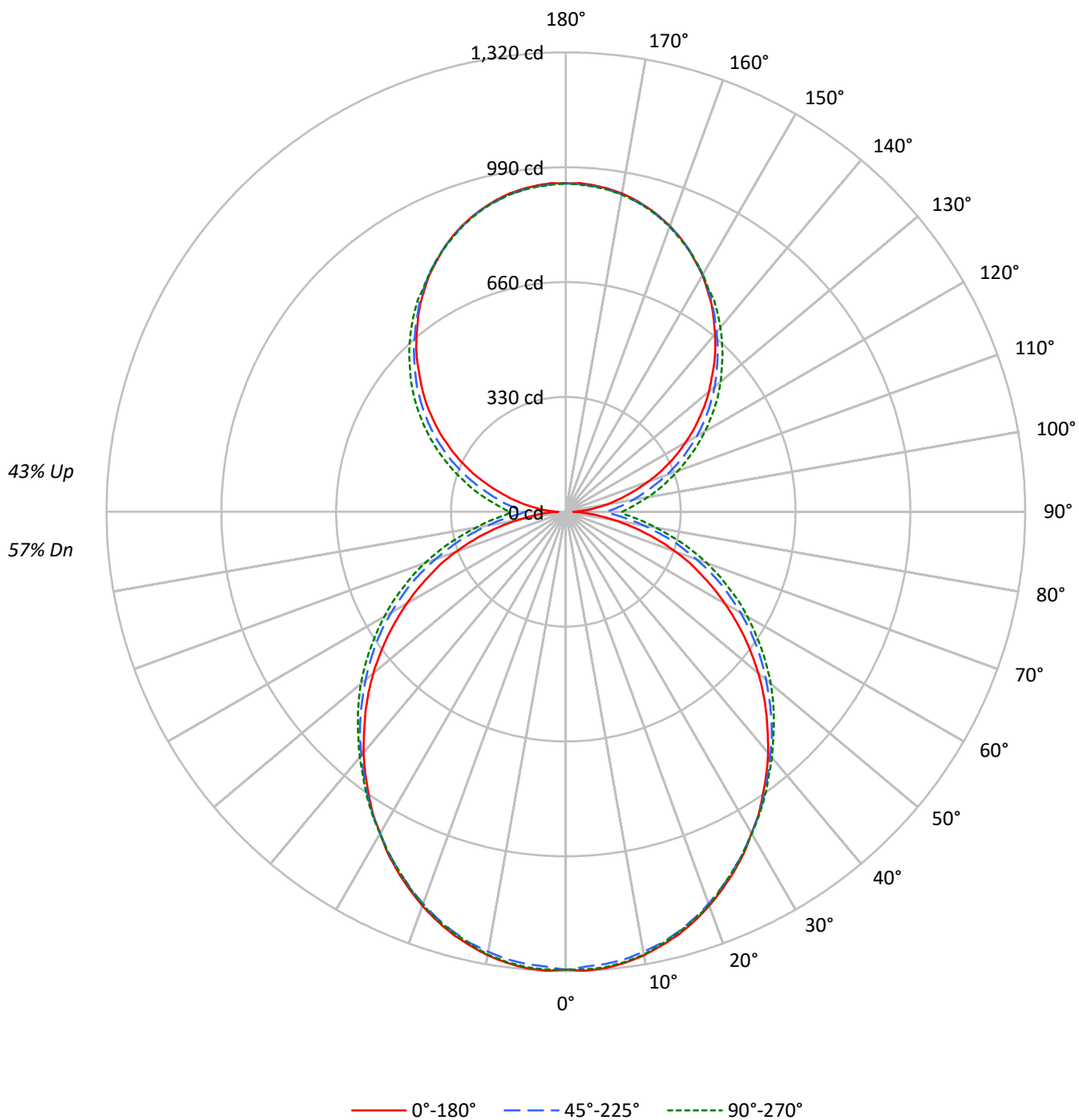
Lumens per Lamp: N/A
Luminaire Lumens: 6712.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	74	74	74	63	63	63
1	99	94	90	86	91	87	84	80	75	73	70	64	62	60	54	53	51
2	89	81	75	69	83	76	70	65	65	61	57	56	53	50	47	45	42
3	81	71	64	57	75	67	60	54	58	52	48	49	45	42	41	38	36
4	74	63	55	48	69	59	51	46	51	45	41	44	39	36	37	33	31
5	68	56	48	41	63	52	45	39	46	39	35	39	34	31	33	29	27
6	63	50	42	36	58	47	39	34	41	35	30	35	30	27	30	26	23
7	58	45	37	31	54	42	35	30	37	31	27	32	27	24	27	24	21
8	54	41	33	28	50	39	31	26	34	28	24	29	25	21	25	21	18
9	50	38	30	25	47	35	28	23	31	25	21	27	22	19	23	19	17
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8432	8432	8432
5°	8446	8256	8275
10°	8382	8087	8064
15°	8280	7891	7804
20°	8143	7655	7545
25°	7980	7403	7233
30°	7782	7129	6949
35°	7598	6875	6687
40°	7410	6609	6423
45°	7198	6378	6185
50°	6994	6126	5971
55°	6749	5888	5722
60°	6481	5614	5467
65°	6202	5327	5180
70°	5881	4943	4881
75°	5375	4562	4516
80°	4712	4101	4112
85°	4059	3732	3899

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.5	1.9
10°-20°	353.5	5.3
20°-30°	525.7	7.8
30°-40°	622.6	9.3
40°-50°	643.7	9.6
50°-60°	593.0	8.8
60°-70°	479.3	7.1
70°-80°	320.7	4.8
80°-90°	167.2	2.5
90°-100°	156.1	2.3
100°-110°	255.3	3.8
110°-120°	362.2	5.4
120°-130°	442.3	6.6
130°-140°	477.8	7.1
140°-150°	459.4	6.8
150°-160°	384.0	5.7
160°-170°	255.2	3.8
170°-180°	89.3	1.3
0°-30°	1003.8	15.0
0°-40°	1626.4	24.2
0°-60°	2863.1	42.7
0°-90°	3830.4	57.1
90°-120°	773.6	11.5
90°-150°	2153.1	32.1
90°-180°	2882.0	42.9
0°-180°	6712.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1316	1316	1316	1316	1316	
5°	1316	1314	1304	1315	1314	125
15°	1257	1258	1249	1257	1252	354
25°	1142	1146	1138	1143	1137	526
35°	988	997	994	997	997	619
45°	814	828	835	844	845	628
55°	626	646	667	681	686	559
65°	431	461	492	511	516	428
75°	237	271	312	338	344	252
85°	71	114	159	187	197	74
90°	21	68	118	151	162	18
95°	64	100	151	184	195	63
105°	179	203	246	277	288	191
115°	324	336	371	394	401	321
125°	467	470	497	516	522	418
135°	603	606	616	633	636	465
145°	729	731	733	739	742	455
155°	833	833	834	836	833	384
165°	905	904	905	908	903	255
175°	941	938	938	943	938	89
180°	944	944	944	944	944	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1316.1	1316.1	1316.1	1316.1	1316.1
2.5°	1320.0	1317.4	1308.3	1317.4	1316.1
5°	1316.1	1313.5	1304.5	1314.8	1313.5
7.5°	1307.1	1305.8	1296.7	1305.8	1304.5
10°	1294.1	1294.1	1283.8	1292.9	1291.6
12.5°	1276.1	1277.4	1269.6	1276.1	1272.2
15°	1256.7	1258.0	1249.0	1256.7	1251.6
17.5°	1232.2	1234.8	1225.8	1232.2	1228.3
20°	1205.1	1207.7	1198.7	1202.5	1202.5
22.5°	1174.2	1179.3	1169.0	1174.2	1170.3
25°	1141.9	1145.8	1138.0	1143.2	1136.7
27.5°	1107.1	1112.2	1103.2	1107.1	1104.5
30°	1067.1	1074.8	1067.1	1069.6	1068.4
32.5°	1030.9	1037.4	1032.2	1034.8	1033.5
35°	988.4	997.4	993.5	997.4	997.4
37.5°	947.1	954.8	953.5	958.7	957.4
40°	904.5	914.8	913.5	918.7	921.3
42.5°	858.0	872.2	876.1	882.6	882.6
45°	814.2	828.4	834.8	843.8	845.1
47.5°	769.0	781.9	792.2	805.1	807.7
50°	722.6	736.7	750.9	765.1	769.0
52.5°	673.5	691.6	709.7	725.1	727.7
55°	625.8	646.4	667.1	681.3	686.4
57.5°	576.8	601.3	624.5	640.0	643.8
60°	527.7	553.5	579.3	598.7	602.6
62.5°	480.0	505.8	534.2	556.1	561.3
65°	431.0	460.6	491.6	511.0	516.1
67.5°	385.8	414.2	445.1	468.4	474.8
70°	335.5	365.1	398.7	423.2	431.0
72.5°	286.4	317.4	354.8	381.9	387.1
75°	237.4	271.0	312.2	338.1	344.5
77.5°	189.7	228.4	267.1	295.5	300.6
80°	145.8	184.5	228.4	256.8	261.9
82.5°	105.8	147.1	192.3	219.3	229.7
85°	71.0	113.5	158.7	187.1	197.4
87.5°	45.2	86.4	130.3	160.0	169.0
90°	21.3	68.5	117.5	150.9	162.1
92.5°	40.1	81.2	132.9	166.5	177.0
95°	64.5	99.5	150.7	184.3	194.8
97.5°	88.9	120.7	173.4	205.0	214.8
100°	117.0	144.1	195.0	228.7	237.8
102.5°	147.3	175.5	219.1	252.3	262.3
105°	179.0	203.4	246.5	276.7	287.9
107.5°	213.7	235.5	276.6	304.6	312.4
110°	249.9	269.0	307.3	334.1	342.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.0	301.1	338.9	362.9	370.4
115°	324.2	336.2	371.2	393.7	400.7
117.5°	361.2	368.3	402.1	424.7	430.8
120°	396.4	403.9	434.3	456.2	461.1
122.5°	433.3	435.3	465.8	485.8	491.3
125°	467.1	470.2	496.7	515.9	521.6
127.5°	503.2	504.1	526.8	545.4	551.7
130°	536.3	538.7	558.1	575.5	580.5
132.5°	568.0	574.6	586.8	604.1	607.1
135°	603.3	606.4	616.1	632.9	636.4
137.5°	636.3	639.4	646.1	662.2	663.8
140°	666.6	670.3	673.8	689.4	690.9
142.5°	698.2	699.8	702.7	715.1	716.6
145°	729.0	730.7	732.9	739.4	742.3
147.5°	756.4	758.6	760.0	764.8	761.6
150°	785.0	784.3	787.2	787.2	787.0
152.5°	808.5	810.0	810.7	812.9	810.0
155°	832.7	832.7	833.5	836.4	832.7
157.5°	854.8	853.3	854.0	857.0	851.8
160°	873.8	871.6	872.4	875.3	871.6
162.5°	890.7	889.3	889.3	892.9	888.5
165°	905.4	904.0	904.7	907.6	903.2
167.5°	918.6	915.7	915.7	920.1	915.7
170°	928.9	926.0	926.0	930.4	925.2
172.5°	936.3	933.3	933.3	937.7	933.3
175°	941.4	938.5	938.5	942.9	937.7
177.5°	945.1	942.1	941.4	945.8	940.7
180°	943.6	943.6	943.6	943.6	943.6

(END OF REPORT)