

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: P1027515

Luminaire Tested: S125DIP-B1090D850UB40-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027515
REPORT IS A COMBINATION OF REPORTS P1001505 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB40-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

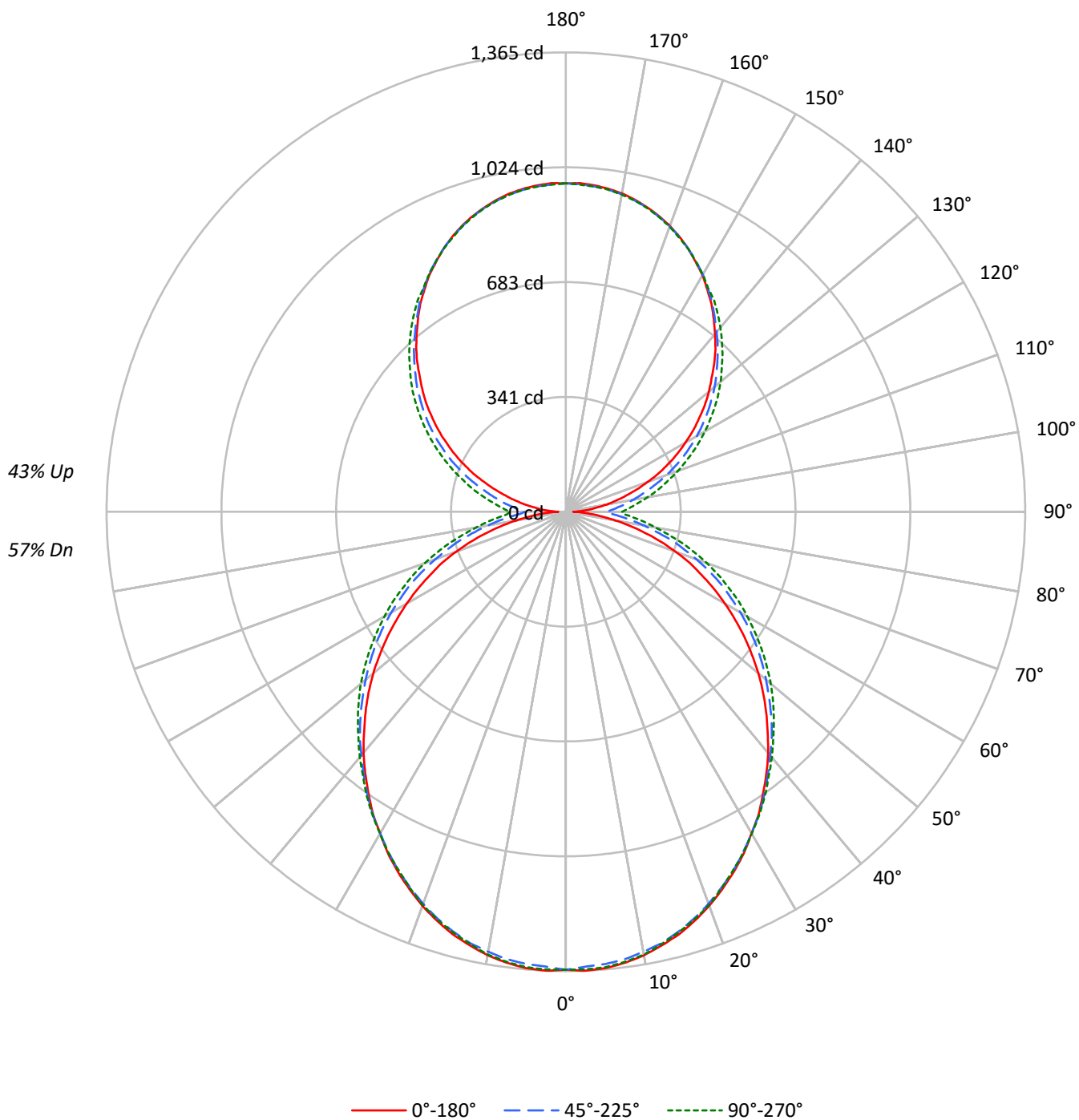
Lumens per Lamp: N/A
Luminaire Lumens: 6941.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 67.9
Input Voltage (V):
Input Current (A_{in}): 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°	8720	8720	8720
5°	8734	8537	8558
10°	8669	8363	8339
15°	8563	8161	8070
20°	8420	7915	7802
25°	8251	7655	7480
30°	8047	7371	7186
35°	7857	7110	6914
40°	7662	6834	6641
45°	7442	6595	6396
50°	7232	6335	6174
55°	6979	6088	5917
60°	6702	5806	5653
65°	6412	5510	5356
70°	6081	5111	5046
75°	5559	4718	4669
80°	4873	4241	4253
85°	4197	3859	4032

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7442 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.9
10°-20°	365.6	5.3
20°-30°	543.6	7.8
30°-40°	643.8	9.3
40°-50°	665.6	9.6
50°-60°	613.2	8.8
60°-70°	495.7	7.1
70°-80°	331.7	4.8
80°-90°	172.9	2.5
90°-100°	161.5	2.3
100°-110°	264.0	3.8
110°-120°	374.6	5.4
120°-130°	457.4	6.6
130°-140°	494.1	7.1
140°-150°	475.1	6.8
150°-160°	397.1	5.7
160°-170°	264.0	3.8
170°-180°	92.4	1.3
0°-30°	1038.0	15.0
0°-40°	1681.9	24.2
0°-60°	2960.7	42.7
0°-90°	3961.0	57.1
90°-120°	800.0	11.5
90°-150°	2226.6	32.1
90°-180°	2980.0	42.9
0°-180°	6941.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1361	1358	1349	1360	1358	129
15°	1300	1301	1292	1300	1294	366
25°	1181	1185	1177	1182	1176	544
35°	1022	1031	1027	1031	1031	640
45°	842	857	863	873	874	650
55°	647	668	690	704	710	578
65°	446	476	508	528	534	442
75°	246	280	323	350	356	260
85°	73	117	164	194	204	77
90°	22	71	122	156	168	18
95°	67	103	156	191	201	65
105°	185	210	255	286	298	197
115°	335	348	384	407	414	332
125°	483	486	514	534	539	432
135°	624	627	637	654	658	481
145°	754	756	758	765	768	471
155°	861	861	862	865	861	397
165°	936	935	936	939	934	264
175°	974	970	970	975	970	93
180°	976	976	976	976	976	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1361.0	1361.0	1361.0	1361.0	1361.0
2.5°	1365.0	1362.3	1352.9	1362.3	1361.0
5°	1361.0	1358.3	1348.9	1359.6	1358.3
7.5°	1351.6	1350.3	1340.9	1350.3	1348.9
10°	1338.3	1338.3	1327.6	1336.9	1335.6
12.5°	1319.6	1320.9	1312.9	1319.6	1315.6
15°	1299.6	1300.9	1291.6	1299.6	1294.2
17.5°	1274.2	1276.9	1267.6	1274.2	1270.2
20°	1246.2	1248.9	1239.5	1243.5	1243.5
22.5°	1214.2	1219.5	1208.8	1214.2	1210.2
25°	1180.8	1184.8	1176.8	1182.2	1175.5
27.5°	1144.8	1150.1	1140.8	1144.8	1142.1
30°	1103.4	1111.4	1103.4	1106.1	1104.8
32.5°	1066.1	1072.8	1067.4	1070.1	1068.7
35°	1022.1	1031.4	1027.4	1031.4	1031.4
37.5°	979.4	987.4	986.0	991.4	990.0
40°	935.3	946.0	944.7	950.0	952.7
42.5°	887.3	902.0	906.0	912.6	912.6
45°	841.9	856.6	863.3	872.6	873.9
47.5°	795.2	808.6	819.2	832.6	835.3
50°	747.2	761.9	776.5	791.2	795.2
52.5°	696.5	715.2	733.8	749.9	752.5
55°	647.1	668.5	689.8	704.5	709.8
57.5°	596.4	621.8	645.8	661.8	665.8
60°	545.7	572.4	599.1	619.1	623.1
62.5°	496.3	523.0	552.4	575.1	580.4
65°	445.6	476.3	508.4	528.4	533.7
67.5°	398.9	428.3	460.3	484.3	491.0
70°	346.9	377.6	412.3	437.6	445.6
72.5°	296.2	328.2	366.9	394.9	400.3
75°	245.5	280.2	322.9	349.6	356.2
77.5°	196.1	236.2	276.2	305.5	310.9
80°	150.8	190.8	236.2	265.5	270.9
82.5°	109.4	152.1	198.8	226.8	237.5
85°	73.4	117.4	164.1	193.5	204.1
87.5°	46.7	89.4	134.8	165.4	174.8
90°	22.1	70.8	121.6	156.0	167.6
92.5°	41.5	84.0	137.5	172.1	183.0
95°	66.7	102.9	155.9	190.6	201.4
97.5°	91.9	124.7	179.4	212.0	222.0
100°	121.0	149.0	201.6	236.4	245.9
102.5°	152.3	181.5	226.7	260.9	271.1
105°	185.1	210.3	254.9	286.2	297.7
107.5°	221.1	243.6	285.9	314.9	322.9
110°	258.4	278.3	317.9	345.5	354.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	297.9	311.4	350.5	375.3	383.1
115°	335.3	347.6	383.9	407.2	414.4
117.5°	373.5	380.9	415.8	439.2	445.5
120°	409.9	417.7	449.2	471.8	476.9
122.5°	448.0	450.2	481.8	502.4	508.1
125°	483.0	486.2	513.7	533.5	539.4
127.5°	520.4	521.4	544.8	564.1	570.6
130°	554.6	557.1	577.2	595.1	600.3
132.5°	587.4	594.3	606.8	624.8	627.8
135°	623.9	627.1	637.2	654.5	658.2
137.5°	658.1	661.2	668.1	684.9	686.4
140°	689.3	693.1	696.8	712.9	714.5
142.5°	722.0	723.7	726.8	739.5	741.0
145°	753.9	755.6	757.9	764.6	767.6
147.5°	782.2	784.5	786.0	791.0	787.5
150°	811.8	811.0	814.1	814.1	813.9
152.5°	836.1	837.6	838.4	840.7	837.6
155°	861.2	861.2	861.9	865.0	861.2
157.5°	883.9	882.4	883.2	886.2	880.9
160°	903.7	901.4	902.2	905.2	901.4
162.5°	921.2	919.6	919.6	923.4	918.9
165°	936.3	934.8	935.6	938.6	934.1
167.5°	950.0	947.0	947.0	951.5	947.0
170°	960.6	957.6	957.6	962.2	956.9
172.5°	968.2	965.2	965.2	969.8	965.2
175°	973.6	970.5	970.5	975.1	969.8
177.5°	977.4	974.3	973.6	978.1	972.8
180°	975.8	975.8	975.8	975.8	975.8

(END OF REPORT)