

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: P1027523

Luminaire Tested: S125DIP-B1090D850UB50-4F0-XX-W2A-D4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027523
REPORT IS A COMBINATION OF REPORTS P1001515 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-D4
Description: Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

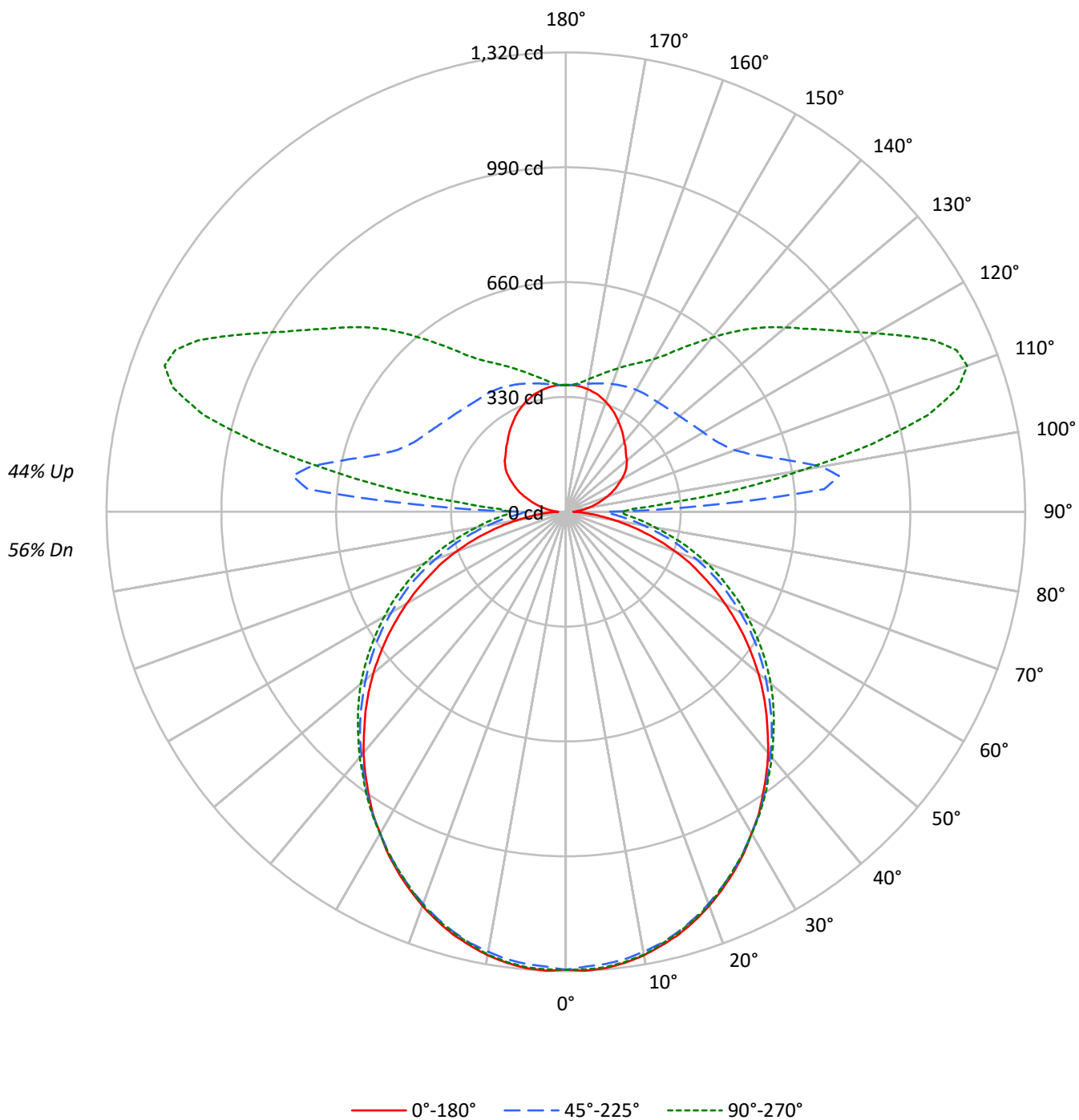
Lumens per Lamp: N/A
Luminaire Lumens: 6819.6 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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		62	62	62
1	98	94	89	86		91	87	83	80		75	72	70		64	62	60		53	52	51
2	89	81	75	69		83	76	70	65		65	61	57		55	52	49		46	44	42
3	81	71	63	57		75	66	59	54		57	52	48		49	45	41		41	38	35
4	74	63	55	48		69	59	51	46		51	45	40		43	39	35		36	33	30
5	68	56	47	41		63	52	45	39		45	39	35		39	34	30		33	29	26
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	23		27	23	20
8	54	41	33	28		50	39	31	26		34	28	24		29	24	21		25	21	18
9	50	37	30	25		46	35	28	23		31	25	21		27	22	19		23	19	16
10	47	34	27	22		43	32	26	21		28	23	19		25	20	17		21	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	1.8
10°-20°	353.5	5.2
20°-30°	525.7	7.7
30°-40°	622.6	9.1
40°-50°	643.7	9.4
50°-60°	593.0	8.7
60°-70°	479.3	7.0
70°-80°	320.7	4.7
80°-90°	167.2	2.5
90°-100°	367.6	5.4
100°-110°	638.5	9.4
110°-120°	578.2	8.5
120°-130°	456.7	6.7
130°-140°	357.4	5.2
140°-150°	263.4	3.9
150°-160°	183.9	2.7
160°-170°	108.4	1.6
170°-180°	35.2	0.5
0°-30°	1003.8	14.7
0°-40°	1626.4	23.8
0°-60°	2863.1	42.0
0°-90°	3830.4	56.2
90°-120°	1584.4	23.2
90°-150°	2661.8	39.0
90°-180°	2989.0	43.8
0°-180°	6819.6	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	161	16
95°	41	122	745	418	304	38
105°	95	148	603	1145	1079	100
115°	156	196	478	995	1165	154
125°	211	245	439	783	911	187
135°	243	291	417	641	743	189
145°	282	321	408	515	571	176
155°	320	344	398	450	469	147
165°	350	359	382	405	411	98
175°	364	364	366	371	369	35
180°	364	364	364	364	364	

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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	151.0	161.4
92.5°	29.1	115.7	393.6	207.2	192.4
95°	41.0	121.9	744.8	417.8	304.2
97.5°	52.9	124.0	791.7	649.2	503.4
100°	65.6	130.1	745.7	863.1	690.1
102.5°	79.7	139.1	670.7	1043.1	901.1
105°	94.6	148.3	603.4	1145.0	1078.7
107.5°	108.7	159.5	552.6	1170.2	1182.5
110°	124.3	171.4	517.3	1134.9	1227.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	141.2	183.2	494.6	1067.8	1214.8
115°	156.0	195.6	477.7	994.6	1165.1
117.5°	169.5	208.2	465.9	926.6	1094.6
120°	184.2	221.4	456.3	869.6	1025.0
122.5°	198.3	233.0	447.5	821.8	962.7
125°	210.8	244.8	439.4	783.1	910.8
127.5°	219.8	257.4	432.8	748.1	863.7
130°	229.3	270.7	427.4	713.8	824.3
132.5°	235.4	282.4	422.3	677.4	784.7
135°	243.4	291.0	417.1	641.4	742.8
137.5°	253.7	300.2	414.0	604.9	698.2
140°	261.2	307.9	410.9	571.2	652.7
142.5°	271.5	313.9	409.0	541.4	610.1
145°	281.8	321.2	408.3	515.0	571.1
147.5°	291.5	327.8	406.8	492.7	534.6
150°	301.1	333.8	404.6	475.1	506.5
152.5°	311.3	339.6	401.7	462.2	486.1
155°	320.1	344.4	398.0	449.8	469.2
157.5°	328.2	349.2	394.3	438.0	453.8
160°	336.3	352.8	390.6	426.2	438.4
162.5°	342.9	356.5	386.2	415.6	424.4
165°	349.5	359.1	381.8	405.0	411.2
167.5°	353.9	360.6	377.4	395.0	398.7
170°	358.3	362.4	373.8	385.5	387.7
172.5°	361.3	363.1	369.3	377.8	377.4
175°	363.5	363.5	366.4	370.8	369.3
177.5°	364.9	363.5	364.2	366.4	364.2
180°	364.2	364.2	364.2	364.2	364.2

(END OF REPORT)