

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: P1026752

Luminaire Tested: S125DIP-B1090D850UB2750-4F0-XX-W2A-F_4000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026752
REPORT IS A COMBINATION OF REPORTS P1001481 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIP-B1090D850UB2750-4F0-XX-W2A-F_4000K
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

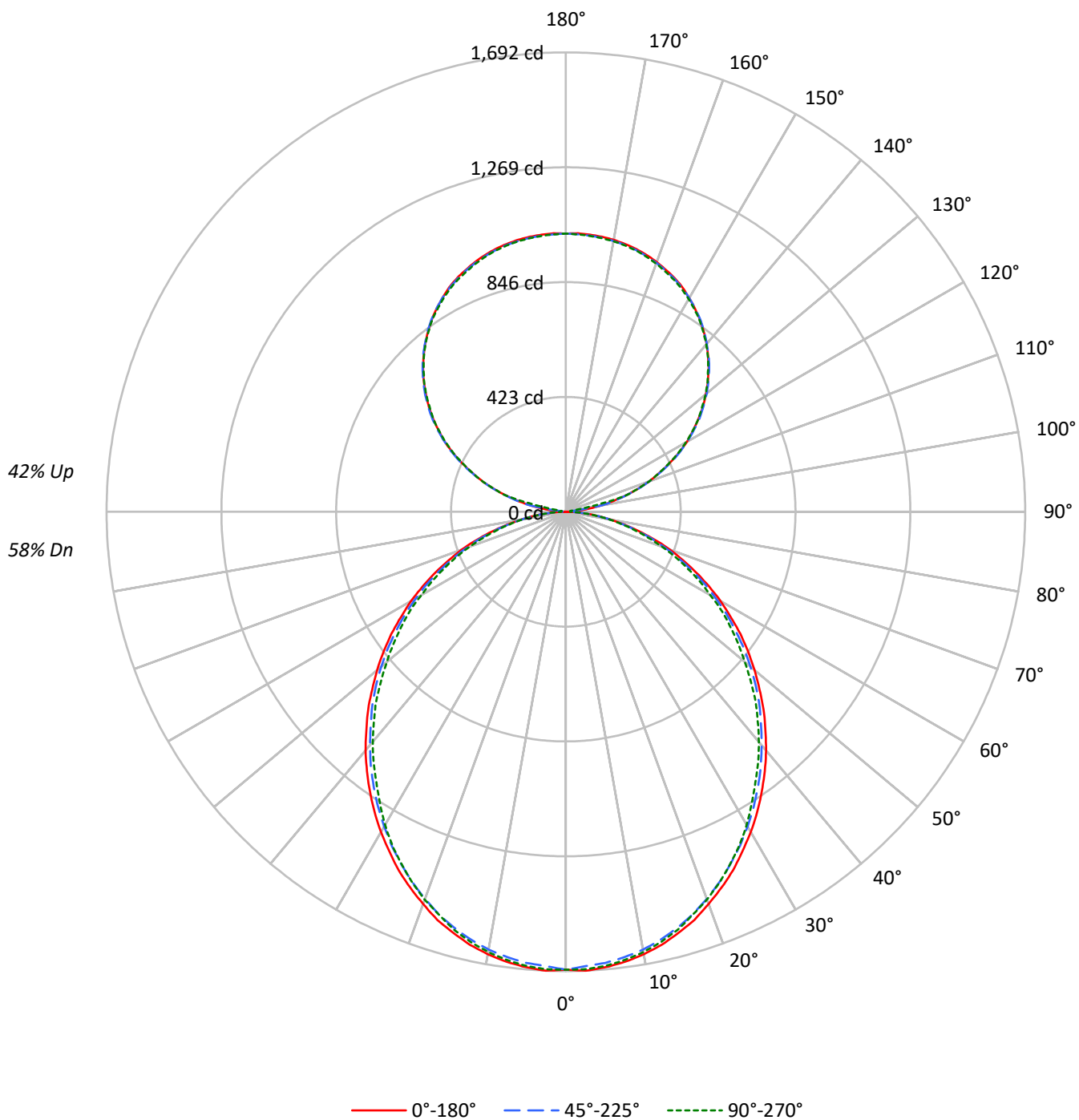
Lumens per Lamp: N/A
Luminaire Lumens: 7539.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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	102	102	102	102	88	88	88	75	75	75	64	64	64
1	100	95	91	88	93	89	85	82	77	74	72	66	64	63	56	55	54
2	91	83	77	72	84	78	72	67	67	63	60	58	55	52	49	47	45
3	83	73	66	60	77	68	62	56	60	54	50	51	47	44	44	41	38
4	76	65	57	50	70	61	53	48	53	47	43	46	41	38	39	36	33
5	69	58	49	43	65	54	47	41	47	41	37	41	36	33	35	32	29
6	64	52	43	38	59	49	41	36	43	37	32	37	32	29	32	28	25
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20
9	51	39	31	26	48	37	30	25	32	27	23	29	24	20	25	21	18
10	48	36	28	23	45	34	27	22	30	24	20	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10807	10807	10807
5°	10807	10556	10576
10°	10717	10314	10281
15°	10577	10024	9935
20°	10387	9689	9537
25°	10183	9322	9111
30°	9936	8941	8662
35°	9673	8542	8159
40°	9401	8119	7711
45°	9107	7707	7237
50°	8783	7240	6683
55°	8462	6724	6174
60°	8081	6181	5582
65°	7623	5553	4969
70°	7157	4830	4262
75°	6376	3977	3446
80°	5432	2971	2535
85°	4197	1756	1397

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9107 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	2.1
10°-20°	449.6	6.0
20°-30°	663.7	8.8
30°-40°	774.4	10.3
40°-50°	777.7	10.3
50°-60°	682.7	9.1
60°-70°	508.5	6.7
70°-80°	290.4	3.9
80°-90°	85.4	1.1
90°-100°	34.8	0.5
100°-110°	231.2	3.1
110°-120°	416.4	5.5
120°-130°	534.5	7.1
130°-140°	574.9	7.6
140°-150°	539.6	7.2
150°-160°	436.4	5.8
160°-170°	282.3	3.7
170°-180°	97.3	1.3
0°-30°	1272.4	16.9
0°-40°	2046.8	27.1
0°-60°	3507.2	46.5
0°-90°	4391.5	58.3
90°-120°	682.5	9.1
90°-150°	2331.4	30.9
90°-180°	3147.0	41.7
0°-180°	7539.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1687	1687	1687	1687	1687	
5°	1684	1681	1668	1680	1679	160
15°	1605	1601	1587	1593	1593	453
25°	1457	1450	1433	1436	1432	670
35°	1258	1253	1234	1228	1217	787
45°	1030	1025	1009	993	989	794
55°	785	781	762	750	741	700
65°	530	527	512	500	495	525
75°	282	279	272	268	263	300
85°	73	75	75	73	71	80
90°	1	7	12	16	18	7
95°	43	41	12	16	16	53
105°	223	226	226	226	226	237
115°	419	423	424	421	416	416
125°	596	602	602	598	596	533
135°	744	748	747	745	741	573
145°	862	864	864	864	860	539
155°	949	945	946	949	943	437
165°	1002	997	998	1003	996	283
175°	1025	1020	1021	1027	1020	98
180°	1025	1025	1025	1025	1025	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1686.7	1686.7	1686.7	1686.7	1686.7
2.5°	1692.0	1688.0	1674.7	1688.0	1686.7
5°	1684.0	1681.3	1668.0	1680.0	1678.7
7.5°	1672.0	1669.3	1654.6	1666.7	1665.3
10°	1654.6	1652.0	1637.3	1648.0	1646.6
12.5°	1633.3	1628.0	1614.6	1622.6	1622.6
15°	1605.3	1601.3	1586.6	1593.3	1593.3
17.5°	1575.9	1569.2	1554.6	1562.6	1555.9
20°	1537.2	1534.6	1517.2	1526.5	1519.9
22.5°	1498.5	1493.2	1477.2	1482.5	1478.5
25°	1457.2	1450.5	1433.1	1435.8	1431.8
27.5°	1409.1	1405.1	1387.8	1389.1	1385.1
30°	1362.4	1358.4	1338.4	1335.7	1331.7
32.5°	1311.7	1305.0	1287.7	1282.4	1274.3
35°	1258.3	1253.0	1234.3	1227.6	1217.0
37.5°	1203.6	1197.0	1179.6	1170.3	1163.6
40°	1147.6	1140.9	1122.2	1110.2	1106.2
42.5°	1087.5	1082.2	1063.5	1052.8	1046.2
45°	1030.2	1024.8	1008.8	992.8	988.8
47.5°	967.4	968.8	948.8	932.7	923.4
50°	907.4	903.4	887.4	870.0	860.7
52.5°	846.0	843.3	826.0	811.3	800.6
55°	784.6	780.6	761.9	749.9	740.6
57.5°	719.2	717.9	701.9	685.9	681.9
60°	657.9	652.5	637.8	624.5	615.2
62.5°	593.8	589.8	577.8	563.1	556.4
65°	529.8	527.1	512.4	500.4	495.1
67.5°	467.0	461.7	451.0	440.4	437.7
70°	408.3	401.7	389.6	381.6	376.3
72.5°	344.3	340.3	333.6	324.3	318.9
75°	281.6	278.9	272.2	268.2	262.9
77.5°	222.8	221.5	217.5	214.8	210.8
80°	168.1	168.1	165.5	164.1	161.5
82.5°	120.1	117.4	117.4	114.8	114.8
85°	73.4	74.7	74.7	73.4	70.7
87.5°	36.0	36.0	34.7	34.7	32.0
90°	0.8	6.8	12.2	16.0	18.2
92.5°	14.4	7.6	12.2	16.0	16.7
95°	43.3	41.0	12.2	16.0	16.0
97.5°	81.3	85.8	13.7	15.2	16.0
100°	126.8	129.1	132.2	19.0	16.0
102.5°	173.2	176.2	177.7	179.3	115.5
105°	223.3	226.3	226.3	226.3	225.6
107.5°	275.0	275.0	276.5	277.2	274.2
110°	325.1	325.1	326.6	324.3	325.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.2	374.5	375.2	372.2	370.7
115°	419.3	423.1	423.8	420.8	416.2
117.5°	468.6	468.6	471.7	467.1	465.6
120°	514.2	513.5	515.7	514.2	510.4
122.5°	554.5	558.3	559.0	557.5	553.0
125°	596.3	601.6	601.6	598.5	596.3
127.5°	636.5	640.3	639.5	638.0	632.0
130°	673.0	676.8	677.5	675.2	671.4
132.5°	709.4	714.0	711.7	711.7	707.9
135°	743.6	748.2	746.6	745.1	740.6
137.5°	775.5	780.1	778.5	778.5	774.7
140°	806.6	808.2	807.4	808.9	804.4
142.5°	834.8	835.5	837.0	837.0	832.5
145°	862.1	863.6	863.6	864.4	859.8
147.5°	886.4	886.4	887.2	887.9	882.6
150°	909.2	907.7	909.2	910.7	904.6
152.5°	931.2	927.4	928.9	930.5	925.1
155°	949.4	944.9	946.4	948.7	942.6
157.5°	963.9	961.6	961.6	963.9	957.8
160°	979.1	974.5	975.3	978.3	972.2
162.5°	991.2	986.7	987.4	992.0	985.1
165°	1001.9	997.3	998.1	1002.6	996.5
167.5°	1010.2	1005.7	1006.4	1011.7	1004.9
170°	1017.0	1011.7	1012.5	1018.6	1011.7
172.5°	1021.6	1016.3	1017.8	1023.1	1016.3
175°	1024.6	1020.1	1020.8	1026.9	1020.1
177.5°	1026.9	1022.4	1023.1	1028.4	1022.4
180°	1024.6	1024.6	1024.6	1024.6	1024.6

(END OF REPORT)