

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: P1027519

Luminaire Tested: S125DIP-B1090D850UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027519
REPORT IS A COMBINATION OF REPORTS P1001509 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-F4
Description: Define 5 Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865} {m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

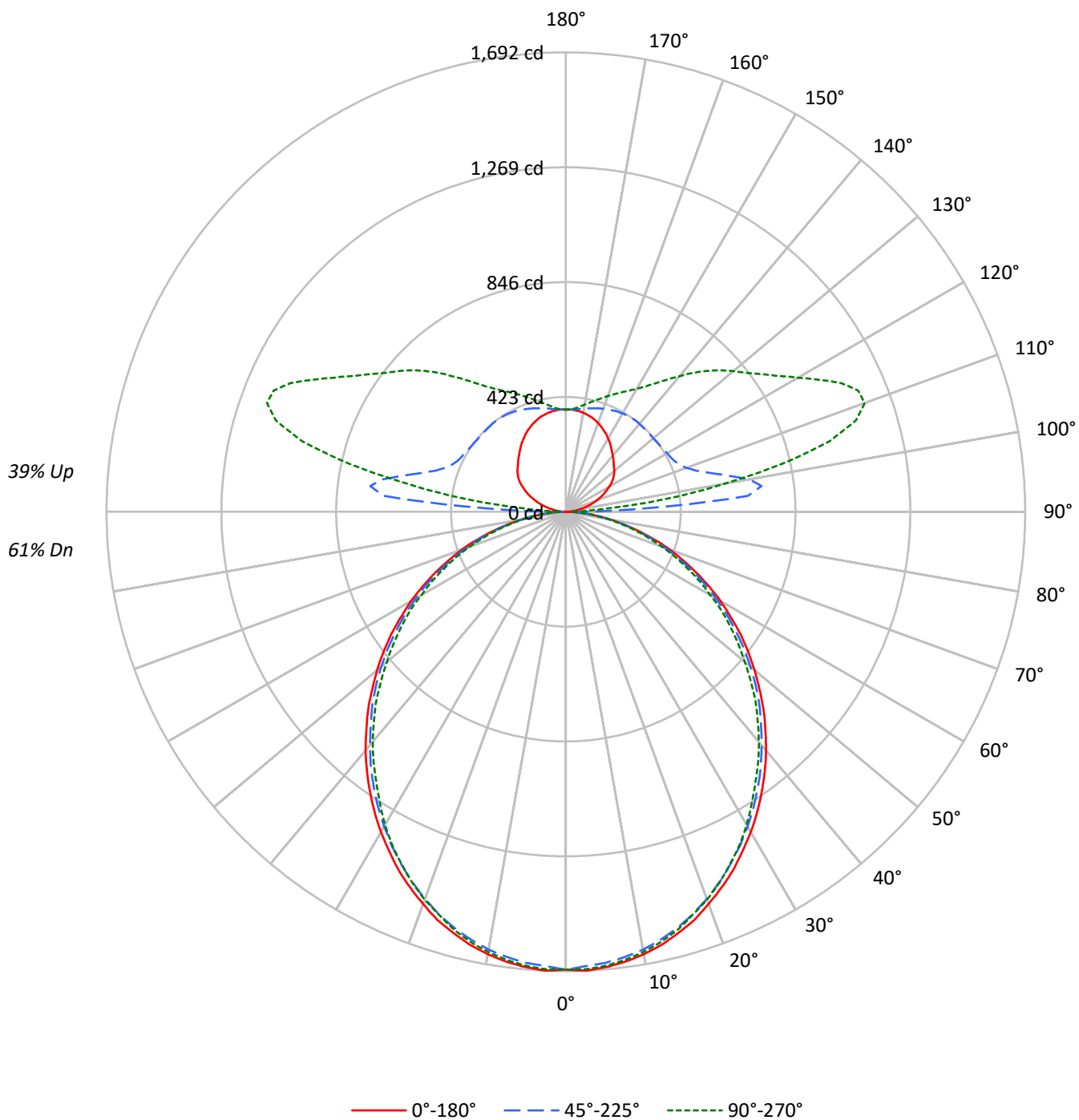
Lumens per Lamp: N/A
Luminaire Lumens: 7225.8 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66
1	100	96	92	88	93	90	86	83	78	76	73	68	66	64	58	57	56
2	91	84	77	72	85	78	73	68	69	64	61	60	56	54	51	49	47
3	83	73	66	60	77	69	62	57	60	55	51	53	49	45	45	42	40
4	76	65	57	51	71	61	54	48	54	48	43	47	42	39	41	37	34
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	37	33	30
6	64	52	44	38	60	49	42	36	43	37	33	38	33	30	33	29	26
7	60	47	39	33	56	44	37	32	39	33	29	35	30	26	30	26	23
8	55	43	35	29	52	40	33	28	36	30	26	32	27	23	28	24	21
9	52	39	31	26	48	37	30	25	33	27	23	29	24	21	26	22	19
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	24	20	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	2.2
10°-20°	449.6	6.2
20°-30°	663.7	9.2
30°-40°	774.4	10.7
40°-50°	777.7	10.8
50°-60°	682.7	9.4
60°-70°	508.5	7.0
70°-80°	290.4	4.0
80°-90°	85.3	1.2
90°-100°	283.6	3.9
100°-110°	589.0	8.2
110°-120°	550.2	7.6
120°-130°	445.2	6.2
130°-140°	357.7	5.0
140°-150°	270.0	3.7
150°-160°	190.1	2.6
160°-170°	112.0	1.6
170°-180°	36.4	0.5
0°-30°	1272.4	17.6
0°-40°	2046.8	28.3
0°-60°	3507.2	48.5
0°-90°	4391.5	60.8
90°-120°	1422.8	19.7
90°-150°	2495.7	34.5
90°-180°	2834.0	39.2
0°-180°	7225.8	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°	25	74	673	305	178	26
105°	86	120	550	1084	1006	90
115°	153	185	442	952	1121	151
125°	213	249	424	758	883	189
135°	249	300	421	635	733	193
145°	290	332	422	526	578	182
155°	331	356	412	465	485	152
165°	361	371	395	419	425	102
175°	376	376	379	383	382	36
180°	377	377	377	377	377	

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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	12.1	16.0	17.5
92.5°	11.4	62.2	302.9	80.8	56.2
95°	25.1	74.0	672.7	305.2	178.4
97.5°	38.7	80.1	726.6	551.2	391.0
100°	53.1	91.9	685.6	779.0	592.2
102.5°	69.1	105.2	613.5	971.8	816.9
105°	85.8	120.0	550.4	1083.8	1006.0
107.5°	101.7	135.5	503.4	1115.3	1119.9
110°	119.2	151.8	472.2	1085.4	1171.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	136.7	168.2	454.0	1022.7	1165.4
115°	153.4	184.9	441.9	952.4	1120.6
117.5°	168.6	202.0	435.0	888.7	1053.1
120°	183.7	218.3	430.5	835.2	987.8
122.5°	199.7	234.2	426.7	792.2	930.1
125°	212.6	249.0	423.7	757.8	883.0
127.5°	223.2	263.4	422.1	728.1	839.7
130°	233.1	277.2	420.6	698.1	805.6
132.5°	240.7	289.2	420.6	665.8	771.4
135°	249.0	299.6	420.6	635.1	733.4
137.5°	259.7	309.0	421.4	602.8	693.9
140°	268.8	317.0	422.1	573.2	652.2
142.5°	279.4	324.6	422.9	547.8	613.5
145°	290.0	332.2	422.1	525.8	578.5
147.5°	301.4	339.0	420.6	506.8	547.4
150°	311.3	345.0	418.3	491.2	522.4
152.5°	321.9	351.2	415.3	478.0	502.6
155°	331.0	356.1	411.5	465.0	485.2
157.5°	339.4	361.0	407.7	452.9	469.2
160°	347.7	364.8	403.9	440.8	453.3
162.5°	354.6	368.6	399.4	429.8	438.8
165°	361.4	371.2	394.8	418.7	425.2
167.5°	366.0	372.8	390.2	408.5	412.3
170°	370.5	374.6	386.5	398.6	400.9
172.5°	373.5	375.5	381.9	390.6	390.2
175°	375.8	375.8	378.9	383.4	381.9
177.5°	377.3	375.8	376.6	378.9	376.6
180°	376.6	376.6	376.6	376.6	376.6

(END OF REPORT)