

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: P1028550

Luminaire Tested: S125RDIP-B1090D850UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028550
REPORT IS A COMBINATION OF REPORTS P1005105 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D850UB35-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

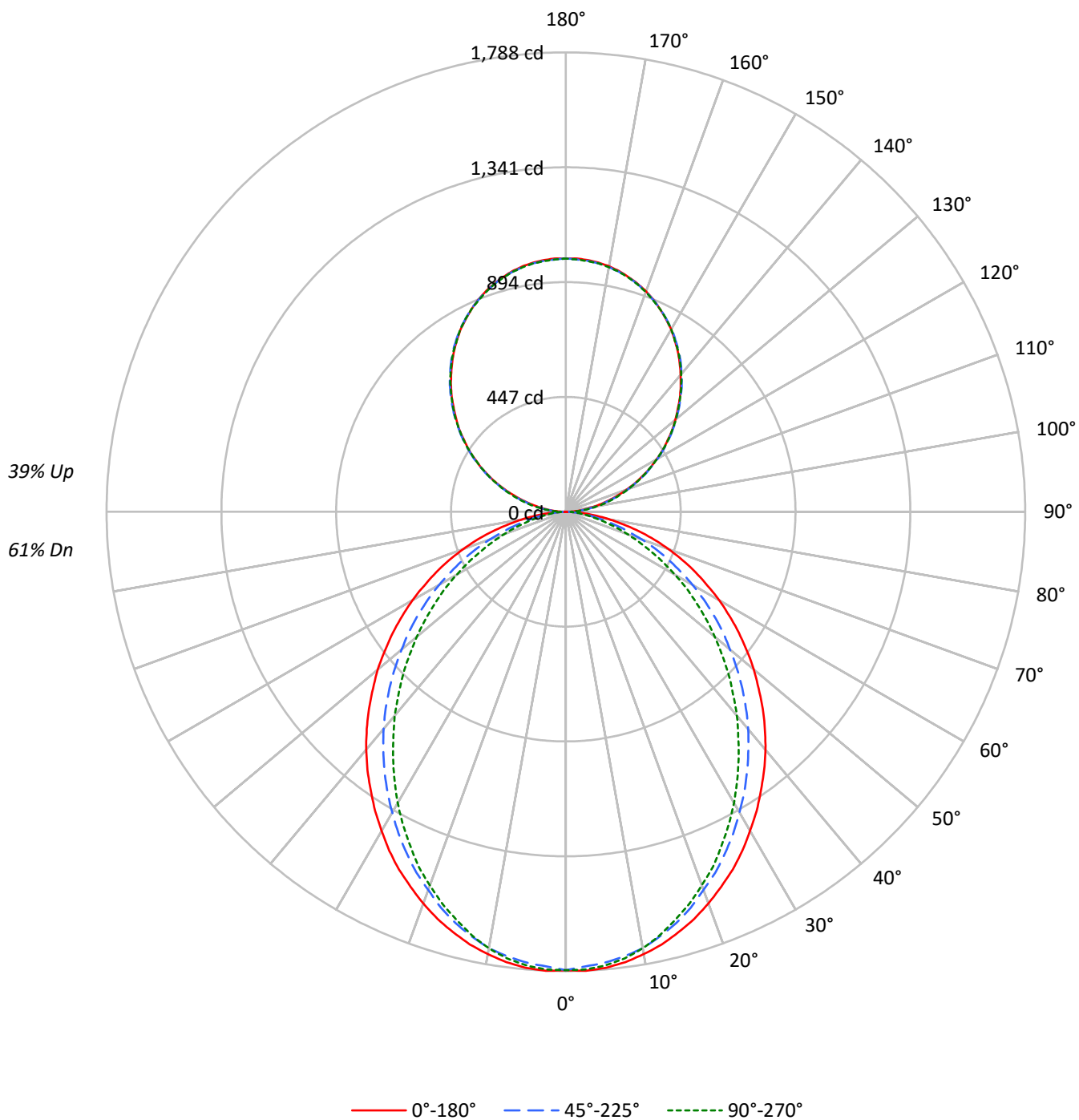
Lumens per Lamp: N/A
Luminaire Lumens: 6968.0 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	89	94	90	87	84	79	76	74	68	66	65	59	57	56
2	92	84	78	73	85	79	74	69	69	65	62	60	57	54	52	50	48
3	84	74	67	61	78	70	63	58	61	56	52	53	50	46	46	43	41
4	77	66	58	52	72	62	55	49	55	49	45	48	43	40	41	38	35
5	71	59	51	45	66	56	48	43	49	43	39	43	38	35	37	34	31
6	65	53	45	39	61	50	43	37	44	38	34	39	34	31	34	30	27
7	60	48	40	34	56	45	38	33	40	34	30	36	31	27	31	27	24
8	56	44	36	31	52	41	34	29	37	31	27	33	28	24	29	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20
10	49	37	29	25	46	35	28	24	31	26	22	28	23	20	25	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11433	11433	11433
5°	11434	11148	11166
10°	11323	10867	10771
15°	11162	10474	10253
20°	10964	10001	9708
25°	10737	9539	9125
30°	10458	9031	8512
35°	10174	8515	7861
40°	9903	7985	7225
45°	9579	7414	6560
50°	9250	6807	5881
55°	8867	6209	5179
60°	8476	5525	4451
65°	8009	4762	3665
70°	7466	3876	2884
75°	6714	2915	2102
80°	5662	1887	1418
85°	4237	1013	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	2.4
10°-20°	469.3	6.7
20°-30°	680.5	9.8
30°-40°	775.3	11.1
40°-50°	755.7	10.8
50°-60°	636.0	9.1
60°-70°	445.7	6.4
70°-80°	228.5	3.3
80°-90°	58.5	0.8
90°-100°	65.5	0.9
100°-110°	194.7	2.8
110°-120°	330.2	4.7
120°-130°	434.7	6.2
130°-140°	487.1	7.0
140°-150°	477.4	6.9
150°-160°	401.0	5.8
160°-170°	266.6	3.8
170°-180°	93.3	1.3
0°-30°	1317.8	18.9
0°-40°	2093.2	30.0
0°-60°	3484.9	50.0
0°-90°	4217.5	60.5
90°-120°	590.4	8.5
90°-150°	1989.6	28.6
90°-180°	2750.0	39.5
0°-180°	6968.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1782	1776	1762	1775	1772	169
15°	1694	1686	1658	1656	1644	478
25°	1536	1516	1466	1449	1434	707
35°	1324	1291	1230	1191	1173	829
45°	1084	1044	970	916	896	836
55°	822	779	704	643	621	735
65°	557	511	439	386	365	551
75°	296	256	200	170	160	313
85°	74	50	43	42	40	81
90°	1	7	12	16	18	8
95°	50	51	59	64	66	52
105°	175	179	183	188	190	186
115°	330	334	335	334	334	327
125°	482	487	488	486	486	432
135°	627	632	633	633	630	484
145°	760	763	765	765	763	475
155°	870	870	870	874	870	401
165°	946	944	945	948	943	267
175°	983	980	980	985	979	93
180°	986	986	986	986	986	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1788.5	1784.4	1771.0	1784.4	1783.1
5°	1781.7	1776.4	1761.5	1775.0	1772.3
7.5°	1768.3	1762.9	1745.4	1756.1	1753.4
10°	1748.1	1744.0	1725.1	1729.2	1725.1
12.5°	1725.1	1719.7	1692.8	1695.5	1688.8
15°	1694.1	1686.1	1657.8	1656.4	1644.3
17.5°	1661.8	1649.7	1616.0	1609.2	1599.8
20°	1622.7	1609.2	1566.1	1559.4	1547.2
22.5°	1579.6	1566.1	1520.3	1505.5	1496.0
25°	1536.5	1516.2	1466.4	1448.8	1434.0
27.5°	1487.9	1463.7	1411.1	1388.2	1373.4
30°	1434.0	1408.4	1351.8	1320.8	1308.7
32.5°	1381.5	1350.5	1292.5	1257.5	1241.3
35°	1323.5	1291.2	1230.5	1191.4	1172.6
37.5°	1268.2	1229.2	1167.2	1121.3	1102.5
40°	1208.9	1168.5	1103.8	1052.6	1036.4
42.5°	1146.9	1105.2	1037.8	989.3	963.7
45°	1083.6	1044.5	970.4	916.5	896.3
47.5°	1017.6	977.1	903.0	847.7	824.8
50°	955.6	911.1	834.3	777.7	757.4
52.5°	888.2	842.4	770.9	708.9	688.7
55°	822.1	779.0	703.5	642.9	621.3
57.5°	754.7	708.9	636.1	576.8	558.0
60°	690.1	642.9	570.1	510.8	490.6
62.5°	621.3	576.8	502.7	448.8	428.6
65°	556.6	510.8	439.4	385.5	365.2
67.5°	491.9	446.1	377.4	326.2	310.0
70°	425.9	380.1	312.7	270.9	254.7
72.5°	361.2	316.7	254.7	217.0	207.6
75°	296.5	256.1	199.5	169.8	160.4
77.5°	230.5	198.1	150.9	128.0	120.0
80°	175.2	142.9	105.1	93.0	90.3
82.5°	121.3	93.0	70.1	66.0	64.7
85°	74.1	49.9	43.1	41.8	40.4
87.5°	31.0	21.6	20.2	20.2	18.9
90°	0.8	6.9	12.3	16.1	18.4
92.5°	23.0	26.8	33.7	39.1	40.6
95°	49.9	51.4	59.1	64.4	66.0
97.5°	76.7	77.5	88.2	92.8	93.6
100°	107.4	107.4	117.3	124.2	125.8
102.5°	140.3	144.2	148.0	155.7	158.0
105°	174.9	178.7	183.3	187.9	190.2
107.5°	212.4	216.3	220.1	222.4	222.4
110°	251.6	255.4	257.7	260.0	259.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.4	293.0	296.0	296.8	295.3
115°	330.5	333.6	335.1	334.4	333.6
117.5°	370.4	371.2	372.7	373.5	370.4
120°	407.2	411.1	411.8	411.8	408.8
122.5°	447.1	447.9	450.2	449.4	447.1
125°	482.4	487.0	487.8	486.2	485.5
127.5°	521.5	523.8	524.6	523.8	522.3
130°	556.0	559.9	561.4	560.6	559.1
132.5°	590.5	597.4	596.7	595.9	593.6
135°	627.3	632.0	632.7	632.7	629.6
137.5°	661.9	666.5	668.0	668.8	664.9
140°	694.8	698.7	701.0	702.5	698.7
142.5°	727.8	730.9	734.0	734.7	730.9
145°	760.0	763.1	765.4	765.4	763.1
147.5°	789.9	792.2	793.8	796.1	789.9
150°	819.8	819.1	822.1	822.1	820.6
152.5°	844.4	845.9	846.7	849.0	845.9
155°	869.7	869.7	870.5	873.5	869.7
157.5°	892.7	891.2	891.9	895.0	889.6
160°	912.6	910.3	911.1	914.2	910.3
162.5°	930.3	928.8	928.8	932.6	928.0
165°	945.6	944.1	944.9	947.9	943.3
167.5°	959.4	956.4	956.4	961.0	956.4
170°	970.2	967.1	967.1	971.7	966.3
172.5°	977.8	974.8	974.8	979.4	974.8
175°	983.2	980.1	980.1	984.7	979.4
177.5°	987.0	984.0	983.2	987.8	982.4
180°	985.5	985.5	985.5	985.5	985.5

(END OF REPORT)