

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: P1028557

Luminaire Tested: S125RDIP-B1090D850UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028557
REPORT IS A COMBINATION OF REPORTS P1005112 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D850UB40-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

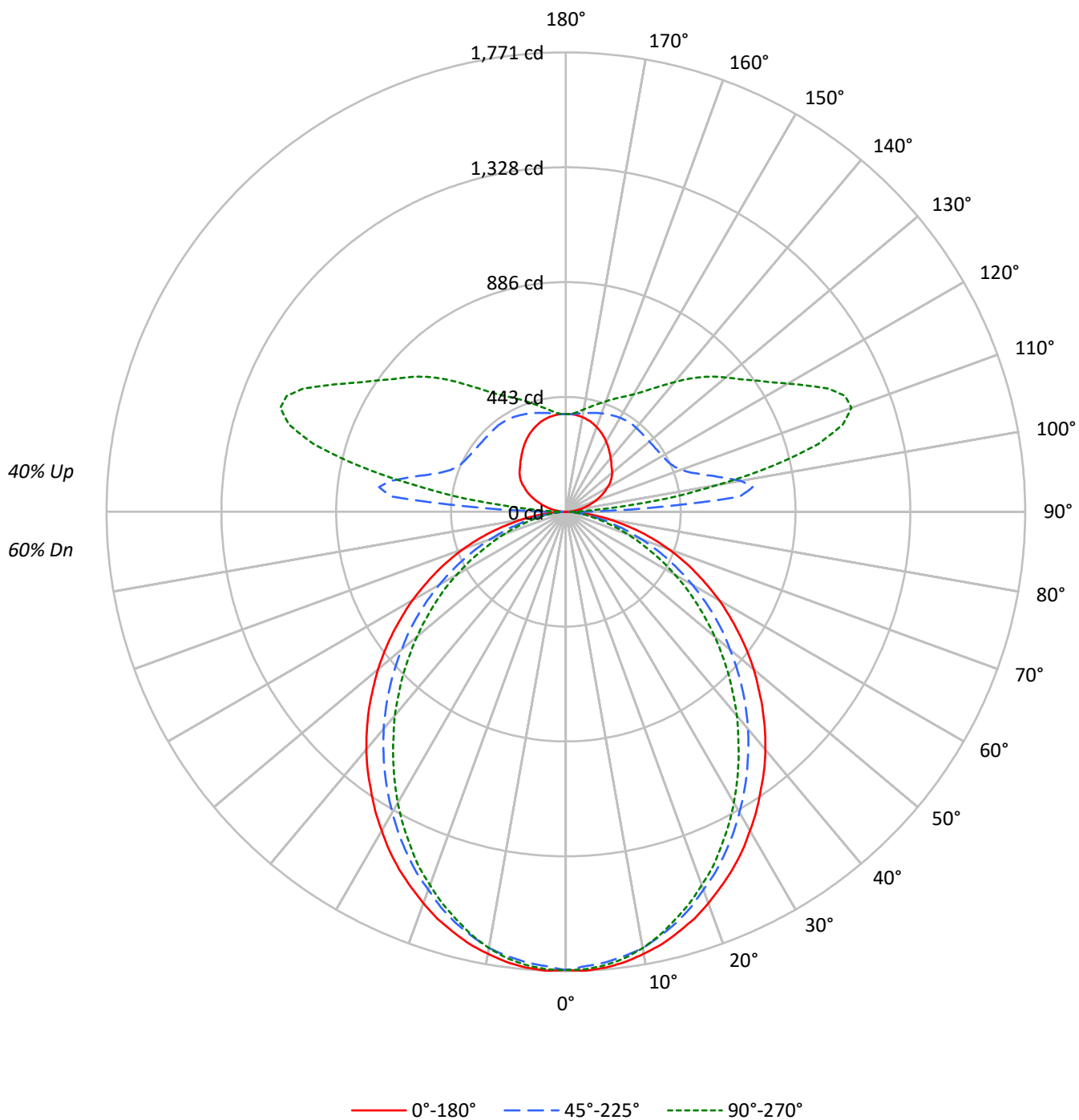
Lumens per Lamp: N/A
Luminaire Lumens: 7009.8 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

TEST NUMBER: P1028557

CATALOG NUMBER: S125RDIP-B1090D850UB40-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028557

CATALOG NUMBER: S125RDIP-B1090D850UB40-4F0-XX-W2A-F4

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	89	89	89	76	76	76	65	65	65
1	100	96	92	89	93	90	86	83	78	76	73	68	66	64	58	57	55
2	91	84	78	73	85	79	73	69	69	65	61	60	57	54	51	49	47
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	46	43	40
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35
5	70	59	51	45	66	55	48	43	49	43	38	43	38	34	37	33	31
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	25	22
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20
10	49	37	29	25	46	35	28	24	31	25	22	28	23	20	24	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11319	11319	11319
5°	11321	11037	11055
10°	11210	10759	10664
15°	11052	10369	10150
20°	10855	9901	9611
25°	10629	9444	9034
30°	10354	8941	8427
35°	10072	8431	7783
40°	9805	7906	7153
45°	9484	7339	6494
50°	9157	6739	5823
55°	8778	6147	5127
60°	8391	5470	4407
65°	7930	4714	3629
70°	7392	3838	2856
75°	6648	2886	2082
80°	5607	1869	1403
85°	4197	1004	790

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9484 cd/sqm

TEST NUMBER: P1028557

CATALOG NUMBER: S125RDIP-B1090D850UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.4
10°-20°	464.7	6.6
20°-30°	673.8	9.6
30°-40°	767.6	11.0
40°-50°	748.2	10.7
50°-60°	629.6	9.0
60°-70°	441.2	6.3
70°-80°	226.2	3.2
80°-90°	57.9	0.8
90°-100°	283.6	4.0
100°-110°	589.0	8.4
110°-120°	550.2	7.8
120°-130°	445.2	6.4
130°-140°	357.7	5.1
140°-150°	270.0	3.9
150°-160°	190.1	2.7
160°-170°	112.0	1.6
170°-180°	36.4	0.5
0°-30°	1304.7	18.6
0°-40°	2072.3	29.6
0°-60°	3450.1	49.2
0°-90°	4175.5	59.6
90°-120°	1422.8	20.3
90°-150°	2495.7	35.6
90°-180°	2834.0	40.4
0°-180°	7009.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1767	1767	1767	1767	1767	
5°	1764	1759	1744	1757	1755	167
15°	1677	1669	1641	1640	1628	473
25°	1521	1501	1452	1434	1420	700
35°	1310	1278	1218	1180	1161	821
45°	1073	1034	961	907	887	827
55°	814	771	696	636	615	728
65°	551	506	435	382	362	546
75°	294	254	198	168	159	310
85°	73	49	43	41	40	80
90°	1	7	12	16	18	6
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	

TEST NUMBER: P1028557

CATALOG NUMBER: S125RDIP-B1090D850UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1766.7	1766.7	1766.7	1766.7	1766.7
2.5°	1770.7	1766.7	1753.3	1766.7	1765.3
5°	1764.0	1758.7	1744.0	1757.3	1754.7
7.5°	1750.7	1745.3	1728.0	1738.6	1736.0
10°	1730.6	1726.6	1708.0	1712.0	1708.0
12.5°	1708.0	1702.6	1675.9	1678.6	1671.9
15°	1677.3	1669.3	1641.2	1639.9	1627.9
17.5°	1645.2	1633.2	1599.9	1593.2	1583.9
20°	1606.5	1593.2	1550.5	1543.8	1531.8
22.5°	1563.8	1550.5	1505.1	1490.5	1481.1
25°	1521.1	1501.1	1451.8	1434.4	1419.7
27.5°	1473.1	1449.1	1397.1	1374.4	1359.7
30°	1419.7	1394.4	1338.3	1307.7	1295.6
32.5°	1367.7	1337.0	1279.6	1244.9	1228.9
35°	1310.3	1278.3	1218.3	1179.6	1160.9
37.5°	1255.6	1216.9	1155.5	1110.2	1091.5
40°	1196.9	1156.9	1092.8	1042.1	1026.1
42.5°	1135.5	1094.2	1027.4	979.4	954.1
45°	1072.8	1034.1	960.7	907.4	887.3
47.5°	1007.4	967.4	894.0	839.3	816.6
50°	946.0	902.0	826.0	769.9	749.9
52.5°	879.3	834.0	763.2	701.9	681.8
55°	813.9	771.2	696.5	636.5	615.1
57.5°	747.2	701.9	629.8	571.1	552.4
60°	683.2	636.5	564.4	505.7	485.7
62.5°	615.1	571.1	497.7	444.3	424.3
65°	551.1	505.7	435.0	381.6	361.6
67.5°	487.0	441.7	373.6	322.9	306.9
70°	421.7	376.3	309.6	268.2	252.2
72.5°	357.6	313.6	252.2	214.8	205.5
75°	293.6	253.5	197.5	168.1	158.8
77.5°	228.2	196.1	149.4	126.8	118.8
80°	173.5	141.4	104.1	92.1	89.4
82.5°	120.1	92.1	69.4	65.4	64.0
85°	73.4	49.4	42.7	41.4	40.0
87.5°	30.7	21.3	20.0	20.0	18.7
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

TEST NUMBER: P1028557

CATALOG NUMBER: S125RDIP-B1090D850UB40-4F0-XX-W2A-F4

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)