

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: P1027261

Luminaire Tested: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027261
REPORT IS A COMBINATION OF REPORTS P1005732 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_3500K
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

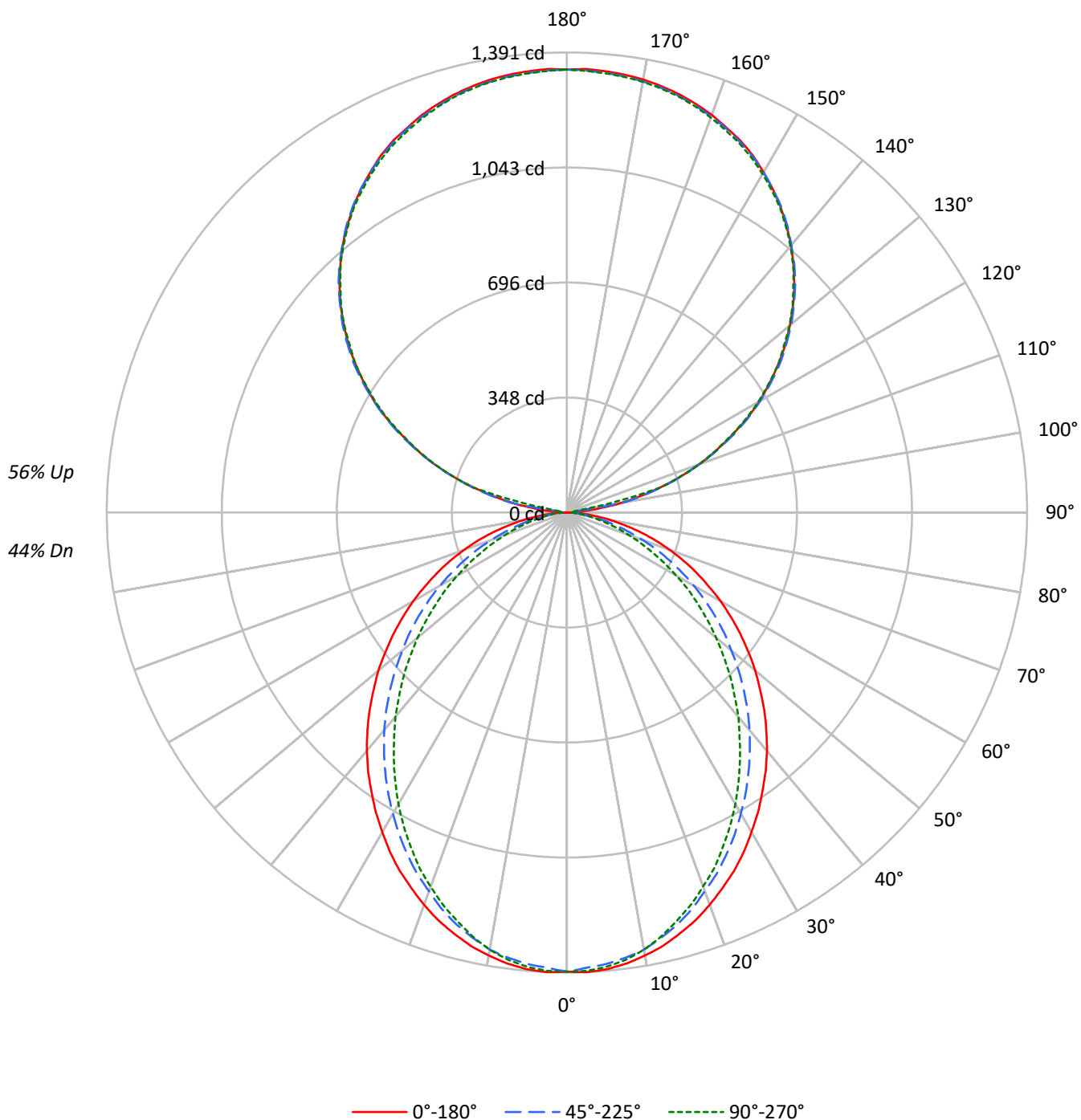
Lumens per Lamp: N/A
Luminaire Lumens: 7396.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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: P1027261

CATALOG NUMBER: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_3500K

Luminous Intensity Polar Plot



TEST NUMBER: P1027261

CATALOG NUMBER: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_3500K

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	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	97	93	89	85	88	85	82	79	71	68	66	57	56	54	45	44	43
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	38	37
3	81	71	64	58	74	66	59	54	55	50	47	45	42	39	36	33	32
4	74	63	55	50	67	58	51	46	49	44	40	40	36	33	32	29	27
5	68	56	48	43	62	52	45	40	44	38	34	36	32	29	29	26	24
6	62	51	43	37	57	47	40	35	39	34	30	33	29	26	26	23	21
7	58	46	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19
8	54	41	34	29	49	38	32	27	33	27	24	27	23	20	22	19	17
9	50	38	30	25	46	35	29	24	30	25	21	25	21	18	20	17	15
10	47	35	28	23	43	32	26	22	28	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8895	8895	8895
5°	8896	8673	8687
10°	8809	8454	8380
15°	8684	8149	7976
20°	8530	7781	7553
25°	8353	7421	7099
30°	8137	7026	6622
35°	7915	6625	6115
40°	7705	6213	5621
45°	7452	5768	5103
50°	7196	5296	4576
55°	6898	4830	4030
60°	6594	4298	3463
65°	6230	3704	2852
70°	5807	3016	2245
75°	5224	2268	1636
80°	4405	1469	1104
85°	3299	790	622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7452 cd/sqm

TEST NUMBER: P1027261

CATALOG NUMBER: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	1.8
10°-20°	365.1	4.9
20°-30°	529.4	7.2
30°-40°	603.2	8.2
40°-50°	587.9	7.9
50°-60°	494.8	6.7
60°-70°	346.7	4.7
70°-80°	177.7	2.4
80°-90°	46.3	0.6
90°-100°	45.4	0.6
100°-110°	302.3	4.1
110°-120°	544.3	7.4
120°-130°	698.7	9.4
130°-140°	751.4	10.2
140°-150°	705.3	9.5
150°-160°	570.5	7.7
160°-170°	368.9	5.0
170°-180°	127.2	1.7
0°-30°	1025.3	13.9
0°-40°	1628.5	22.0
0°-60°	2711.2	36.7
0°-90°	3282.0	44.4
90°-120°	892.0	12.1
90°-150°	3047.4	41.2
90°-180°	4114.0	55.6
0°-180°	7396.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1386	1382	1370	1381	1379	131
15°	1318	1312	1290	1289	1279	372
25°	1195	1180	1141	1127	1116	550
35°	1030	1004	957	927	912	645
45°	843	813	755	713	697	650
55°	640	606	547	500	483	572
65°	433	397	342	300	284	429
75°	231	199	155	132	125	244
85°	58	39	34	32	32	63
90°	1	9	16	21	24	6
95°	57	54	16	21	21	69
105°	292	296	296	296	295	309
115°	548	553	554	550	544	543
125°	779	786	786	782	779	696
135°	972	978	976	974	968	749
145°	1127	1129	1129	1130	1124	705
155°	1241	1235	1237	1240	1232	572
165°	1310	1304	1304	1310	1303	370
175°	1339	1333	1334	1342	1333	128
180°	1339	1339	1339	1339	1339	

TEST NUMBER: P1027261

CATALOG NUMBER: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1391.4	1388.3	1377.8	1388.3	1387.2
5°	1386.2	1382.0	1370.4	1380.9	1378.8
7.5°	1375.7	1371.5	1357.9	1366.3	1364.2
10°	1360.0	1356.8	1342.1	1345.3	1342.1
12.5°	1342.1	1337.9	1317.0	1319.1	1313.8
15°	1318.0	1311.7	1289.7	1288.7	1279.2
17.5°	1292.9	1283.4	1257.2	1252.0	1244.6
20°	1262.4	1252.0	1218.4	1213.2	1203.7
22.5°	1228.9	1218.4	1182.8	1171.2	1163.9
25°	1195.3	1179.6	1140.8	1127.2	1115.7
27.5°	1157.6	1138.7	1097.8	1080.0	1068.5
30°	1115.7	1095.7	1051.7	1027.6	1018.1
32.5°	1074.8	1050.6	1005.6	978.3	965.7
35°	1029.7	1004.5	957.3	926.9	912.2
37.5°	986.7	956.3	908.0	872.4	857.7
40°	940.5	909.1	858.8	818.9	806.3
42.5°	892.3	859.8	807.4	769.6	749.7
45°	843.0	812.6	755.0	713.0	697.3
47.5°	791.7	760.2	702.5	659.5	641.7
50°	743.4	708.8	649.1	605.0	589.3
52.5°	691.0	655.3	599.8	551.5	535.8
55°	639.6	606.1	547.3	500.2	483.4
57.5°	587.2	551.5	494.9	448.8	434.1
60°	536.9	500.2	443.5	397.4	381.7
62.5°	483.4	448.8	391.1	349.2	333.4
65°	433.0	397.4	341.8	299.9	284.2
67.5°	382.7	347.1	293.6	253.7	241.2
70°	331.3	295.7	243.3	210.8	198.2
72.5°	281.0	246.4	198.2	168.8	161.5
75°	230.7	199.2	155.2	132.1	124.8
77.5°	179.3	154.1	117.4	99.6	93.3
80°	136.3	111.1	81.8	72.3	70.3
82.5°	94.4	72.3	54.5	51.4	50.3
85°	57.7	38.8	33.6	32.5	31.5
87.5°	24.1	16.8	15.7	15.7	14.7
90°	1.0	8.9	15.9	20.8	23.8
92.5°	18.9	9.9	15.9	20.8	21.8
95°	56.6	53.6	15.9	20.8	20.8
97.5°	106.2	112.2	17.9	19.9	20.8
100°	165.8	168.8	172.7	24.8	20.8
102.5°	226.4	230.3	232.3	234.3	150.9
105°	291.9	295.9	295.9	295.9	294.9
107.5°	359.4	359.4	361.4	362.4	358.4
110°	424.9	424.9	426.9	423.9	424.9



TEST NUMBER: P1027261

CATALOG NUMBER: S125RDIP-B850D1090UB2750-4F0-XX-W2A-F_3500K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.5	489.5	490.4	486.5	484.5
115°	548.0	553.0	554.0	550.0	544.1
117.5°	612.6	612.6	616.5	610.6	608.6
120°	672.1	671.1	674.1	672.1	667.2
122.5°	724.7	729.7	730.7	728.7	722.8
125°	779.3	786.3	786.3	782.3	779.3
127.5°	832.0	836.9	835.9	834.0	826.0
130°	879.6	884.6	885.6	882.6	877.6
132.5°	927.3	933.2	930.3	930.3	925.3
135°	972.0	977.9	975.9	973.9	968.0
137.5°	1013.7	1019.6	1017.6	1017.6	1012.7
140°	1054.4	1056.3	1055.3	1057.3	1051.4
142.5°	1091.1	1092.1	1094.1	1094.1	1088.1
145°	1126.8	1128.8	1128.8	1129.8	1123.9
147.5°	1158.6	1158.6	1159.6	1160.6	1153.6
150°	1188.4	1186.4	1188.4	1190.4	1182.4
152.5°	1217.2	1212.2	1214.2	1216.2	1209.2
155°	1241.0	1235.0	1237.0	1240.0	1232.1
157.5°	1259.9	1256.9	1256.9	1259.9	1251.9
160°	1279.7	1273.8	1274.8	1278.7	1270.8
162.5°	1295.6	1289.6	1290.6	1296.6	1287.7
165°	1309.5	1303.5	1304.5	1310.5	1302.6
167.5°	1320.4	1314.5	1315.5	1322.4	1313.5
170°	1329.4	1322.4	1323.4	1331.3	1322.4
172.5°	1335.3	1328.4	1330.4	1337.3	1328.4
175°	1339.3	1333.3	1334.3	1342.3	1333.3
177.5°	1342.3	1336.3	1337.3	1344.3	1336.3
180°	1339.3	1339.3	1339.3	1339.3	1339.3

(END OF REPORT)