

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: P1028436

Luminaire Tested: S125RDIP-B1090D1090UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028436
REPORT IS A COMBINATION OF REPORTS P1004951 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1090UB40-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

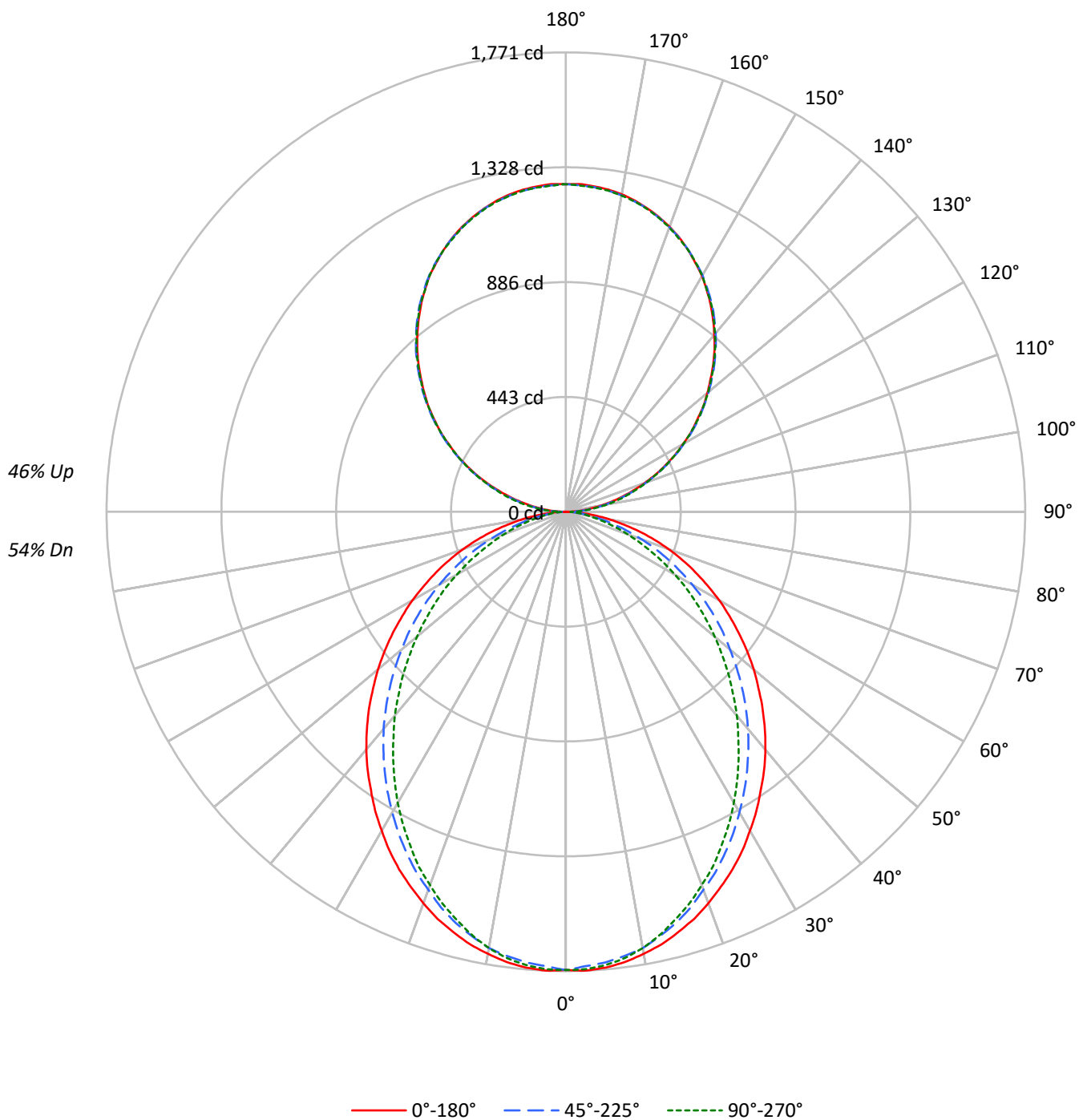
Lumens per Lamp: N/A
Luminaire Lumens: 7700.0 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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: P1028436

CATALOG NUMBER: S125RDIP-B1090D1090UB40-4F0-XX-W2A-F1

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51
2	90	83	77	72	84	77	72	67	66	63	59	57	54	51	47	45	43
3	83	73	66	60	76	68	62	57	59	54	50	50	47	43	42	39	37
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32
5	69	58	50	44	64	54	47	42	47	41	37	40	36	33	34	31	28
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25
7	59	47	39	34	55	44	37	32	39	33	29	33	29	25	28	25	22
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16

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: P1028436

CATALOG NUMBER: S125RDIP-B1090D1090UB40-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	2.2
10°-20°	464.7	6.0
20°-30°	673.8	8.8
30°-40°	767.6	10.0
40°-50°	748.2	9.7
50°-60°	629.6	8.2
60°-70°	441.2	5.7
70°-80°	226.2	2.9
80°-90°	58.4	0.8
90°-100°	84.0	1.1
100°-110°	249.4	3.2
110°-120°	423.0	5.5
120°-130°	556.9	7.2
130°-140°	624.1	8.1
140°-150°	611.7	7.9
150°-160°	513.8	6.7
160°-170°	341.6	4.4
170°-180°	119.5	1.6
0°-30°	1304.7	16.9
0°-40°	2072.3	26.9
0°-60°	3450.1	44.8
0°-90°	4176.0	54.2
90°-120°	756.4	9.8
90°-150°	2549.1	33.1
90°-180°	3524.0	45.8
0°-180°	7700.0	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	9	16	21	24	9
95°	64	66	76	82	84	67
105°	224	229	235	241	244	239
115°	424	427	429	428	427	419
125°	618	624	625	623	622	554
135°	804	810	811	811	807	620
145°	974	978	981	981	978	609
155°	1114	1114	1115	1119	1114	513
165°	1212	1210	1211	1214	1209	342
175°	1260	1256	1256	1262	1255	120
180°	1263	1263	1263	1263	1263	

TEST NUMBER: P1028436

CATALOG NUMBER: S125RDIP-B1090D1090UB40-4F0-XX-W2A-F1

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°	1.0	8.8	15.7	20.6	23.6
92.5°	29.5	34.4	43.2	50.1	52.1
95°	63.9	65.8	75.7	82.5	84.5
97.5°	98.3	99.2	113.0	118.9	119.9
100°	137.6	137.6	150.3	159.2	161.2
102.5°	179.8	184.7	189.6	199.5	202.4
105°	224.0	229.0	234.8	240.7	243.7
107.5°	272.2	277.1	282.0	285.0	285.0
110°	322.3	327.2	330.2	333.1	332.1

TEST NUMBER: P1028436

CATALOG NUMBER: S125RDIP-B1090D1090UB40-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	373.4	375.4	379.3	380.3	378.3
115°	423.5	427.4	429.4	428.4	427.4
117.5°	474.6	475.6	477.6	478.5	474.6
120°	521.8	526.7	527.7	527.7	523.7
122.5°	572.9	573.9	576.8	575.8	572.9
125°	618.1	624.0	625.0	623.0	622.0
127.5°	668.2	671.1	672.1	671.1	669.2
130°	712.4	717.3	719.3	718.3	716.3
132.5°	756.6	765.5	764.5	763.5	760.6
135°	803.8	809.7	810.7	810.7	806.7
137.5°	848.0	853.9	855.9	856.9	851.9
140°	890.3	895.2	898.1	900.1	895.2
142.5°	932.5	936.4	940.4	941.4	936.4
145°	973.8	977.7	980.7	980.7	977.7
147.5°	1012.1	1015.1	1017.0	1020.0	1012.1
150°	1050.4	1049.4	1053.4	1053.4	1051.4
152.5°	1081.9	1083.8	1084.8	1087.8	1083.8
155°	1114.3	1114.3	1115.3	1119.2	1114.3
157.5°	1143.8	1141.8	1142.8	1146.7	1139.9
160°	1169.3	1166.4	1167.4	1171.3	1166.4
162.5°	1191.9	1190.0	1190.0	1194.9	1189.0
165°	1211.6	1209.6	1210.6	1214.5	1208.6
167.5°	1229.3	1225.3	1225.3	1231.2	1225.3
170°	1243.0	1239.1	1239.1	1245.0	1238.1
172.5°	1252.9	1248.9	1248.9	1254.8	1248.9
175°	1259.7	1255.8	1255.8	1261.7	1254.8
177.5°	1264.6	1260.7	1259.7	1265.6	1258.7
180°	1262.7	1262.7	1262.7	1262.7	1262.7

(END OF REPORT)