

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: P1028442

Luminaire Tested: S125RDIP-B1090D1090UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028442
REPORT IS A COMBINATION OF REPORTS P1004957 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1090UB50-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

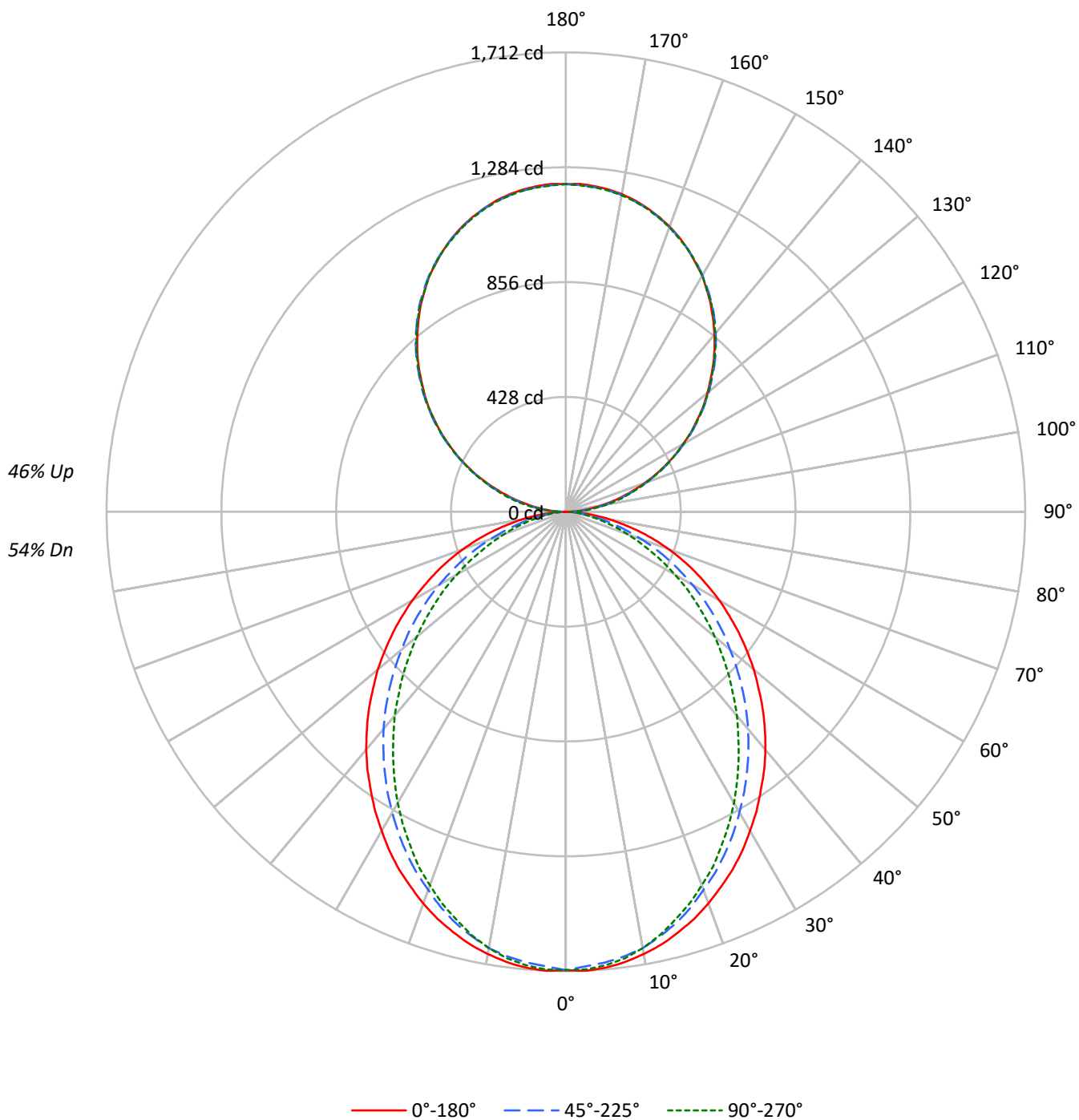
Lumens per Lamp: N/A
Luminaire Lumens: 7446.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1028442

CATALOG NUMBER: S125RDIP-B1090D1090UB50-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1028442

CATALOG NUMBER: S125RDIP-B1090D1090UB50-4F0-XX-W2A-F1

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	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	54		
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	53	52	51	46		
2	90	83	77	72	84	77	72	67	66	63	59	57	54	51	47	45	43	39		
3	83	73	66	60	76	68	62	57	59	54	50	50	47	43	42	39	37	33		
4	76	65	57	51	70	61	54	48	52	47	43	45	41	37	38	35	32	29		
5	69	58	50	44	64	54	47	42	47	41	37	40	36	33	34	31	28	25		
6	64	52	44	38	59	49	41	36	42	37	32	37	32	29	31	28	25	22		
7	59	47	39	34	55	44	37	32	39	33	29	33	29	25	28	25	22	20		
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20	18		
9	51	39	32	27	48	37	30	25	32	27	23	28	24	20	24	21	18	16		
10	48	36	29	24	45	34	27	23	30	24	21	26	22	19	22	19	16	15		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10945	10945	10945
5°	10946	10672	10689
10°	10839	10403	10312
15°	10686	10027	9815
20°	10496	9574	9294
25°	10279	9132	8735
30°	10012	8646	8148
35°	9739	8152	7525
40°	9481	7645	6917
45°	9170	7097	6279
50°	8855	6516	5630
55°	8488	5944	4958
60°	8114	5290	4261
65°	7668	4558	3510
70°	7147	3710	2762
75°	6426	2791	2012
80°	5419	1806	1356
85°	4059	971	764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9170 cd/sqm

TEST NUMBER: P1028442

CATALOG NUMBER: S125RDIP-B1090D1090UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.2
10°-20°	449.3	6.0
20°-30°	651.5	8.7
30°-40°	742.2	10.0
40°-50°	723.5	9.7
50°-60°	608.8	8.2
60°-70°	426.7	5.7
70°-80°	218.7	2.9
80°-90°	56.5	0.8
90°-100°	81.2	1.1
100°-110°	241.2	3.2
110°-120°	409.1	5.5
120°-130°	538.6	7.2
130°-140°	603.5	8.1
140°-150°	591.6	7.9
150°-160°	496.9	6.7
160°-170°	330.3	4.4
170°-180°	115.6	1.6
0°-30°	1261.6	16.9
0°-40°	2003.8	26.9
0°-60°	3336.1	44.8
0°-90°	4037.9	54.2
90°-120°	731.6	9.8
90°-150°	2465.3	33.1
90°-180°	3408.0	45.8
0°-180°	7446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1706	1700	1686	1699	1697	162
15°	1622	1614	1587	1586	1574	457
25°	1471	1452	1404	1387	1373	677
35°	1267	1236	1178	1141	1122	793
45°	1037	1000	929	877	858	800
55°	787	746	674	615	595	704
65°	533	489	421	369	350	528
75°	284	245	191	163	154	300
85°	71	48	41	40	39	78
90°	1	9	15	20	23	8
95°	62	64	73	80	82	65
105°	217	221	227	233	236	231
115°	410	413	415	414	413	405
125°	598	603	604	602	602	536
135°	777	783	784	784	780	599
145°	942	946	948	948	946	589
155°	1078	1078	1079	1082	1078	496
165°	1172	1170	1171	1175	1169	331
175°	1218	1214	1214	1220	1214	116
180°	1221	1221	1221	1221	1221	

TEST NUMBER: P1028442

CATALOG NUMBER: S125RDIP-B1090D1090UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1712.1	1708.3	1695.4	1708.3	1707.0
5°	1705.7	1700.5	1686.3	1699.2	1696.6
7.5°	1692.8	1687.6	1670.8	1681.2	1678.6
10°	1673.4	1669.5	1651.5	1655.4	1651.5
12.5°	1651.5	1646.3	1620.5	1623.1	1616.6
15°	1621.8	1614.1	1587.0	1585.7	1574.1
17.5°	1590.8	1579.2	1547.0	1540.5	1531.5
20°	1553.4	1540.5	1499.2	1492.8	1481.2
22.5°	1512.1	1499.2	1455.4	1441.2	1432.1
25°	1470.9	1451.5	1403.8	1387.0	1372.8
27.5°	1424.4	1401.2	1350.9	1328.9	1314.7
30°	1372.8	1348.3	1294.1	1264.4	1252.8
32.5°	1322.5	1292.8	1237.3	1203.8	1188.3
35°	1267.0	1236.0	1178.0	1140.6	1122.5
37.5°	1214.1	1176.7	1117.3	1073.5	1055.4
40°	1157.3	1118.6	1056.7	1007.7	992.2
42.5°	1098.0	1058.0	993.5	947.0	922.5
45°	1037.3	999.9	929.0	877.4	858.0
47.5°	974.1	935.4	864.4	811.6	789.6
50°	914.8	872.2	798.6	744.5	725.1
52.5°	850.3	806.4	738.0	678.7	659.3
55°	787.0	745.7	673.5	615.4	594.8
57.5°	722.5	678.7	609.0	552.2	534.2
60°	660.6	615.4	545.8	489.0	469.6
62.5°	594.8	552.2	481.3	429.6	410.3
65°	532.9	489.0	420.6	369.0	349.7
67.5°	470.9	427.1	361.3	312.2	296.8
70°	407.7	363.8	299.3	259.3	243.9
72.5°	345.8	303.2	243.9	207.7	198.7
75°	283.8	245.1	191.0	162.6	153.5
77.5°	220.6	189.7	144.5	122.6	114.8
80°	167.7	136.8	100.6	89.0	86.4
82.5°	116.1	89.0	67.1	63.2	61.9
85°	71.0	47.7	41.3	40.0	38.7
87.5°	29.7	20.6	19.4	19.4	18.1
90°	1.0	8.6	15.2	20.0	22.8
92.5°	28.5	33.3	41.8	48.5	50.4
95°	61.8	63.7	73.2	79.8	81.7
97.5°	95.0	96.0	109.3	115.0	115.9
100°	133.0	133.0	145.4	153.9	155.8
102.5°	173.9	178.7	183.4	192.9	195.8
105°	216.7	221.4	227.1	232.8	235.7
107.5°	263.2	268.0	272.7	275.6	275.6
110°	311.7	316.5	319.3	322.2	321.2

TEST NUMBER: P1028442

CATALOG NUMBER: S125RDIP-B1090D1090UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	361.1	363.0	366.8	367.8	365.9
115°	409.6	413.4	415.3	414.3	413.4
117.5°	459.0	459.9	461.8	462.8	459.0
120°	504.6	509.4	510.3	510.3	506.5
122.5°	554.0	555.0	557.8	556.9	554.0
125°	597.7	603.4	604.4	602.5	601.5
127.5°	646.2	649.1	650.0	649.1	647.2
130°	689.0	693.7	695.6	694.7	692.8
132.5°	731.7	740.3	739.3	738.4	735.5
135°	777.3	783.0	784.0	784.0	780.2
137.5°	820.1	825.8	827.7	828.7	823.9
140°	861.0	865.7	868.6	870.5	865.7
142.5°	901.8	905.6	909.4	910.4	905.6
145°	941.7	945.6	948.4	948.4	945.6
147.5°	978.8	981.7	983.6	986.4	978.8
150°	1015.9	1014.9	1018.7	1018.7	1016.8
152.5°	1046.3	1048.2	1049.1	1052.0	1048.2
155°	1077.6	1077.6	1078.6	1082.4	1077.6
157.5°	1106.2	1104.3	1105.2	1109.0	1102.4
160°	1130.9	1128.0	1129.0	1132.8	1128.0
162.5°	1152.7	1150.8	1150.8	1155.6	1149.9
165°	1171.7	1169.8	1170.8	1174.6	1168.9
167.5°	1188.8	1185.0	1185.0	1190.7	1185.0
170°	1202.1	1198.3	1198.3	1204.0	1197.4
172.5°	1211.6	1207.8	1207.8	1213.5	1207.8
175°	1218.3	1214.5	1214.5	1220.2	1213.5
177.5°	1223.0	1219.2	1218.3	1224.0	1217.3
180°	1221.1	1221.1	1221.1	1221.1	1221.1

(END OF REPORT)