

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: P1028590

Luminaire Tested: S125RDIP-B1270D1090UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028590
REPORT IS A COMBINATION OF REPORTS P1005157 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1090UB50-4F0-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

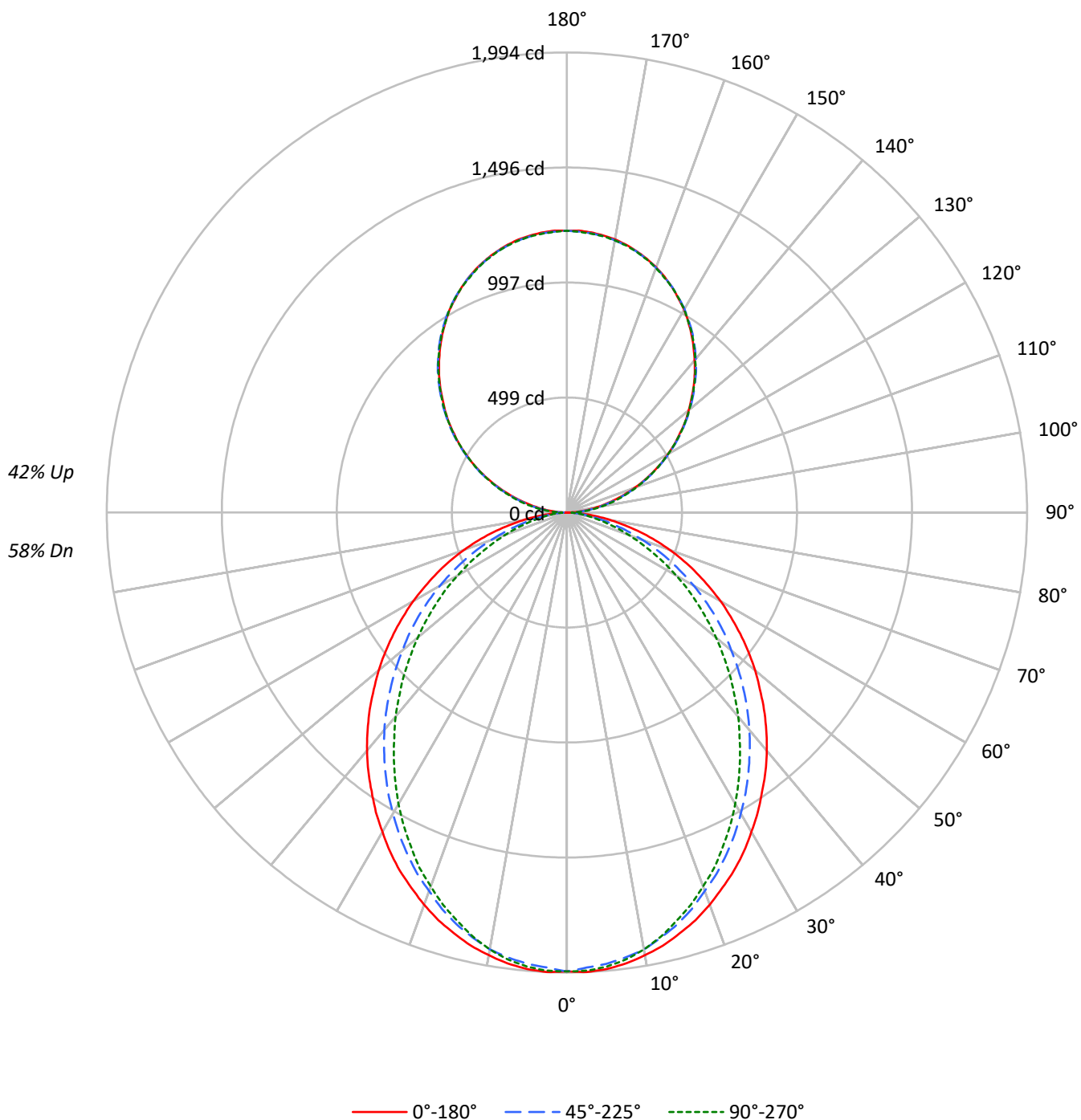
Lumens per Lamp: N/A
Luminaire Lumens: 8110.0 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 89.8
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: P1028590

CATALOG NUMBER: S125RDIP-B1270D1090UB50-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1028590

CATALOG NUMBER: S125RDIP-B1270D1090UB50-4F0-XX-W2A-F1

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	88	88	88	75	75	75	63	63	63
1	100	96	92	88	93	89	86	83	77	75	73	67	65	63	57	55	54
2	91	84	78	73	85	78	73	68	68	64	61	59	56	53	50	48	46
3	83	74	67	61	77	69	63	57	60	55	51	52	48	45	45	42	39
4	76	66	58	52	71	61	54	49	54	48	44	47	42	39	40	37	34
5	70	59	50	44	65	55	48	42	48	42	38	42	37	34	36	33	30
6	65	53	45	39	60	49	42	37	44	38	33	38	33	30	33	29	26
7	60	48	40	34	56	45	38	33	40	34	29	35	30	26	30	26	24
8	56	43	36	30	52	41	34	29	36	30	26	32	27	24	28	24	21
9	52	40	32	27	48	37	31	26	33	28	24	29	25	21	26	22	19
10	49	36	29	24	45	34	28	23	31	25	21	27	23	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12746	12746	12746
5°	12747	12428	12448
10°	12622	12115	12008
15°	12444	11677	11429
20°	12223	11149	10823
25°	11969	10634	10172
30°	11659	10068	9489
35°	11341	9493	8763
40°	11040	8902	8054
45°	10679	8265	7313
50°	10311	7588	6556
55°	9885	6922	5773
60°	9449	6160	4962
65°	8928	5308	4087
70°	8323	4322	3216
75°	7483	3249	2344
80°	6311	2104	1581
85°	4723	1131	891

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 10679 cd/sqm

TEST NUMBER: P1028590

CATALOG NUMBER: S125RDIP-B1270D1090UB50-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.2	2.3
10°-20°	523.2	6.5
20°-30°	758.7	9.4
30°-40°	864.3	10.7
40°-50°	842.5	10.4
50°-60°	709.0	8.7
60°-70°	496.8	6.1
70°-80°	254.7	3.1
80°-90°	65.4	0.8
90°-100°	81.2	1.0
100°-110°	241.2	3.0
110°-120°	409.1	5.0
120°-130°	538.6	6.6
130°-140°	603.5	7.4
140°-150°	591.6	7.3
150°-160°	496.9	6.1
160°-170°	330.3	4.1
170°-180°	115.6	1.4
0°-30°	1469.1	18.1
0°-40°	2333.5	28.8
0°-60°	3884.9	47.9
0°-90°	4701.9	58.0
90°-120°	731.6	9.0
90°-150°	2465.3	30.4
90°-180°	3408.0	42.0
0°-180°	8110.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1989	1989	1989	1989	1989	
5°	1986	1980	1964	1979	1976	188
15°	1889	1880	1848	1847	1833	533
25°	1713	1690	1635	1615	1599	788
35°	1475	1439	1372	1328	1307	924
45°	1208	1164	1082	1022	999	932
55°	916	868	784	717	693	820
65°	620	569	490	430	407	614
75°	330	286	222	189	179	349
85°	83	56	48	47	45	90
90°	1	9	15	20	23	9
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: P1028590

CATALOG NUMBER: S125RDIP-B1270D1090UB50-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1989.3	1989.3	1989.3	1989.3	1989.3
2.5°	1993.8	1989.3	1974.3	1989.3	1987.8
5°	1986.3	1980.3	1963.8	1978.8	1975.8
7.5°	1971.3	1965.3	1945.7	1957.7	1954.7
10°	1948.7	1944.2	1923.2	1927.7	1923.2
12.5°	1923.2	1917.2	1887.1	1890.1	1882.6
15°	1888.6	1879.6	1848.1	1846.6	1833.0
17.5°	1852.6	1839.0	1801.5	1794.0	1783.5
20°	1809.0	1794.0	1745.9	1738.4	1724.9
22.5°	1760.9	1745.9	1694.8	1678.3	1667.8
25°	1712.8	1690.3	1634.7	1615.2	1598.6
27.5°	1658.7	1631.7	1573.1	1547.6	1531.0
30°	1598.6	1570.1	1507.0	1472.4	1458.9
32.5°	1540.1	1505.5	1440.9	1401.8	1383.8
35°	1475.4	1439.4	1371.8	1328.2	1307.2
37.5°	1413.8	1370.3	1301.2	1250.1	1229.0
40°	1347.7	1302.7	1230.5	1173.4	1155.4
42.5°	1278.6	1232.0	1156.9	1102.8	1074.3
45°	1208.0	1164.4	1081.8	1021.7	999.2
47.5°	1134.4	1089.3	1006.7	945.1	919.5
50°	1065.3	1015.7	930.0	866.9	844.4
52.5°	990.1	939.1	859.4	790.3	767.8
55°	916.5	868.4	784.3	716.7	692.6
57.5°	841.4	790.3	709.2	643.1	622.0
60°	769.3	716.7	635.6	569.4	546.9
62.5°	692.6	643.1	560.4	500.3	477.8
65°	620.5	569.4	489.8	429.7	407.2
67.5°	548.4	497.3	420.7	363.6	345.6
70°	474.8	423.7	348.6	302.0	284.0
72.5°	402.7	353.1	284.0	241.9	231.4
75°	330.5	285.5	222.4	189.3	178.8
77.5°	256.9	220.9	168.3	142.7	133.7
80°	195.3	159.3	117.2	103.7	100.7
82.5°	135.2	103.7	78.1	73.6	72.1
85°	82.6	55.6	48.1	46.6	45.1
87.5°	34.6	24.0	22.5	22.5	21.0
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: P1028590

CATALOG NUMBER: S125RDIP-B1270D1090UB50-4F0-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)