

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: P1028578

Luminaire Tested: S125RDIP-B1270D1090UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028578
REPORT IS A COMBINATION OF REPORTS P1005145 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1090UB35-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

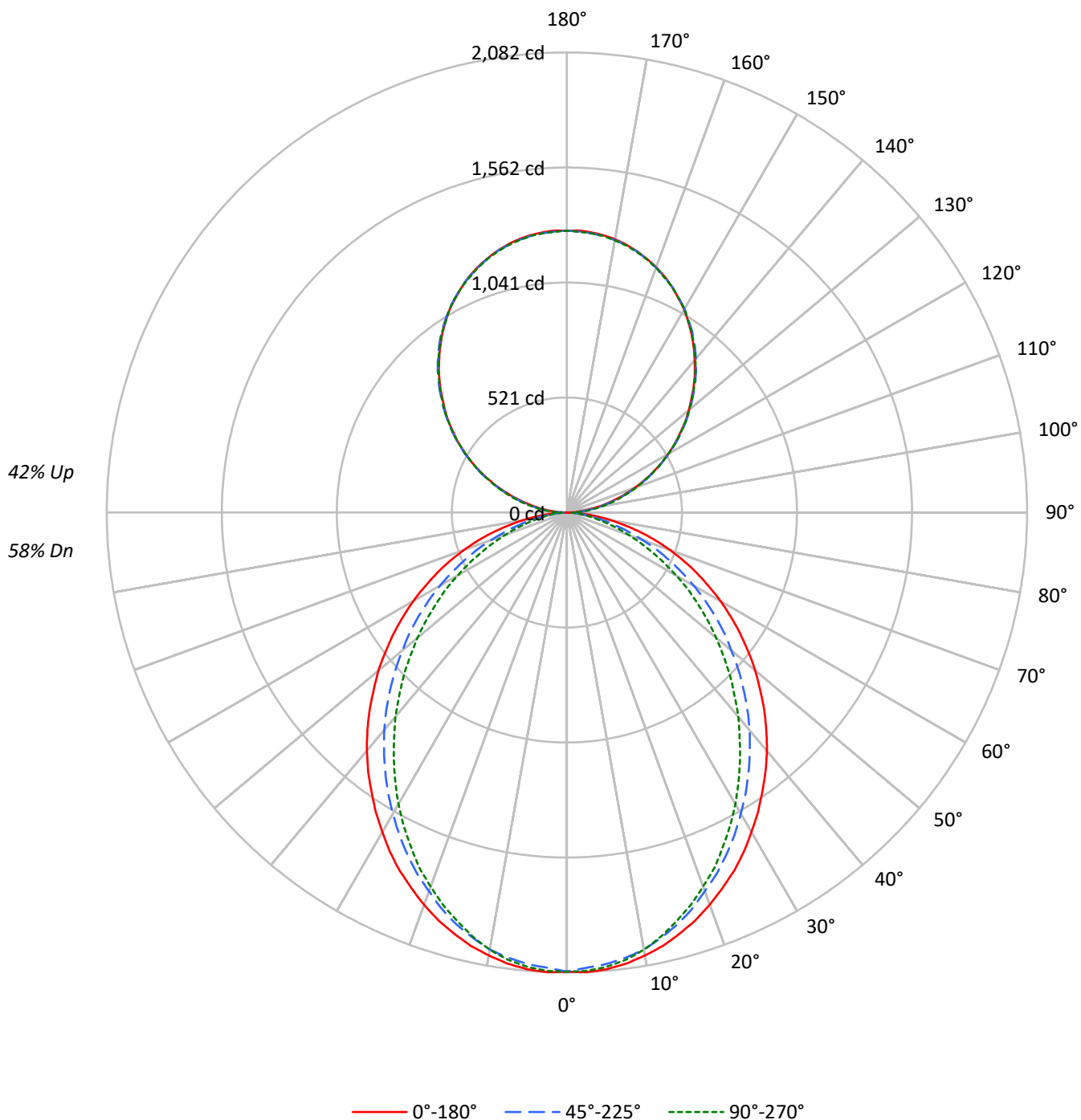
Lumens per Lamp: N/A
Luminaire Lumens: 8471.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1028578

CATALOG NUMBER: S125RDIP-B1270D1090UB35-4F0-XX-W2A-F1

Luminous Intensity Polar Plot



TEST NUMBER: P1028578

CATALOG NUMBER: S125RDIP-B1270D1090UB35-4F0-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°	13313	13313	13313
5°	13314	12981	13001
10°	13184	12653	12542
15°	12997	12195	11938
20°	12766	11645	11304
25°	12501	11107	10624
30°	12177	10515	9911
35°	11847	9915	9153
40°	11532	9299	8413
45°	11153	8632	7638
50°	10769	7925	6848
55°	10325	7230	6030
60°	9869	6433	5182
65°	9326	5544	4268
70°	8693	4514	3359
75°	7816	3394	2447
80°	6592	2198	1650
85°	4934	1180	930

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11153 cd/sqm

TEST NUMBER: P1028578

CATALOG NUMBER: S125RDIP-B1270D1090UB35-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.6	2.3
10°-20°	546.5	6.5
20°-30°	792.4	9.4
30°-40°	902.8	10.7
40°-50°	879.9	10.4
50°-60°	740.5	8.7
60°-70°	518.9	6.1
70°-80°	266.0	3.1
80°-90°	68.3	0.8
90°-100°	84.8	1.0
100°-110°	252.0	3.0
110°-120°	427.4	5.0
120°-130°	562.6	6.6
130°-140°	630.4	7.4
140°-150°	617.9	7.3
150°-160°	519.1	6.1
160°-170°	345.0	4.1
170°-180°	120.7	1.4
0°-30°	1534.4	18.1
0°-40°	2437.2	28.8
0°-60°	4057.7	47.9
0°-90°	4911.0	58.0
90°-120°	764.2	9.0
90°-150°	2575.2	30.4
90°-180°	3560.0	42.0
0°-180°	8471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2078	2078	2078	2078	2078	
5°	2075	2068	2051	2067	2064	197
15°	1973	1963	1930	1929	1914	556
25°	1789	1766	1707	1687	1670	823
35°	1541	1503	1433	1387	1365	965
45°	1262	1216	1130	1067	1044	973
55°	957	907	819	749	723	856
65°	648	595	512	449	425	642
75°	345	298	232	198	187	365
85°	86	58	50	49	47	95
90°	1	9	16	21	24	9
95°	64	66	76	83	85	67
105°	226	231	237	243	246	241
115°	428	432	434	433	432	423
125°	624	630	631	629	628	559
135°	812	818	819	819	815	626
145°	984	988	991	991	988	615
155°	1126	1126	1127	1131	1126	519
165°	1224	1222	1223	1227	1221	345
175°	1273	1269	1269	1275	1268	121
180°	1276	1276	1276	1276	1276	

TEST NUMBER: P1028578

CATALOG NUMBER: S125RDIP-B1270D1090UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2077.8	2077.8	2077.8	2077.8	2077.8
2.5°	2082.5	2077.8	2062.1	2077.8	2076.2
5°	2074.6	2068.3	2051.1	2066.8	2063.6
7.5°	2058.9	2052.6	2032.2	2044.8	2041.7
10°	2035.4	2030.7	2008.7	2013.4	2008.7
12.5°	2008.7	2002.4	1971.0	1974.2	1966.3
15°	1972.6	1963.2	1930.2	1928.7	1914.5
17.5°	1935.0	1920.8	1881.6	1873.7	1862.8
20°	1889.4	1873.7	1823.5	1815.7	1801.6
22.5°	1839.2	1823.5	1770.2	1752.9	1741.9
25°	1789.0	1765.5	1707.4	1687.0	1669.7
27.5°	1732.5	1704.3	1643.1	1616.4	1599.1
30°	1669.7	1639.9	1574.0	1537.9	1523.8
32.5°	1608.5	1572.4	1505.0	1464.2	1445.3
35°	1541.1	1503.4	1432.8	1387.3	1365.3
37.5°	1476.7	1431.2	1359.0	1305.7	1283.7
40°	1407.7	1360.6	1285.3	1225.6	1206.8
42.5°	1335.5	1286.8	1208.4	1151.9	1122.1
45°	1261.7	1216.2	1129.9	1067.1	1043.6
47.5°	1184.8	1137.7	1051.4	987.1	960.4
50°	1112.6	1060.8	971.4	905.5	881.9
52.5°	1034.2	980.8	897.6	825.5	801.9
55°	957.3	907.1	819.2	748.6	723.4
57.5°	878.8	825.5	740.7	671.7	649.7
60°	803.5	748.6	663.8	594.8	571.2
62.5°	723.4	671.7	585.3	522.6	499.0
65°	648.1	594.8	511.6	448.8	425.3
67.5°	572.8	519.4	439.4	379.8	360.9
70°	495.9	442.5	364.1	315.4	296.6
72.5°	420.6	368.8	296.6	252.7	241.7
75°	345.2	298.2	232.3	197.7	186.7
77.5°	268.4	230.7	175.8	149.1	139.7
80°	204.0	166.3	122.4	108.3	105.1
82.5°	141.2	108.3	81.6	76.9	75.3
85°	86.3	58.1	50.2	48.6	47.1
87.5°	36.1	25.1	23.5	23.5	22.0
90°	1.0	8.9	15.9	20.8	23.8
92.5°	29.8	34.7	43.7	50.6	52.6
95°	64.5	66.5	76.4	83.4	85.4
97.5°	99.3	100.3	114.2	120.1	121.1
100°	139.0	139.0	151.9	160.8	162.8
102.5°	181.7	186.6	191.6	201.5	204.5
105°	226.3	231.3	237.2	243.2	246.2
107.5°	275.0	279.9	284.9	287.9	287.9
110°	325.6	330.6	333.5	336.5	335.5

TEST NUMBER: P1028578

CATALOG NUMBER: S125RDIP-B1270D1090UB35-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	377.2	379.2	383.2	384.2	382.2
115°	427.8	431.8	433.8	432.8	431.8
117.5°	479.5	480.4	482.4	483.4	479.5
120°	527.1	532.1	533.1	533.1	529.1
122.5°	578.7	579.7	582.7	581.7	578.7
125°	624.4	630.3	631.3	629.3	628.4
127.5°	675.0	678.0	679.0	678.0	676.0
130°	719.7	724.6	726.6	725.6	723.7
132.5°	764.3	773.3	772.3	771.3	768.3
135°	812.0	818.0	818.9	818.9	815.0
137.5°	856.7	862.6	864.6	865.6	860.6
140°	899.4	904.3	907.3	909.3	904.3
142.5°	942.0	946.0	950.0	951.0	946.0
145°	983.7	987.7	990.7	990.7	987.7
147.5°	1022.4	1025.4	1027.4	1030.4	1022.4
150°	1061.2	1060.2	1064.1	1064.1	1062.1
152.5°	1092.9	1094.9	1095.9	1098.9	1094.9
155°	1125.7	1125.7	1126.7	1130.6	1125.7
157.5°	1155.5	1153.5	1154.5	1158.4	1151.5
160°	1181.3	1178.3	1179.3	1183.3	1178.3
162.5°	1204.1	1202.1	1202.1	1207.1	1201.1
165°	1224.0	1222.0	1223.0	1226.9	1221.0
167.5°	1241.8	1237.8	1237.8	1243.8	1237.8
170°	1255.7	1251.7	1251.7	1257.7	1250.8
172.5°	1265.6	1261.7	1261.7	1267.6	1261.7
175°	1272.6	1268.6	1268.6	1274.6	1267.6
177.5°	1277.6	1273.6	1272.6	1278.5	1271.6
180°	1275.6	1275.6	1275.6	1275.6	1275.6

(END OF REPORT)