

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: P1028585

Luminaire Tested: S125RDIP-B1270D1090UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028585
REPORT IS A COMBINATION OF REPORTS P1005152 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1090UB40-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

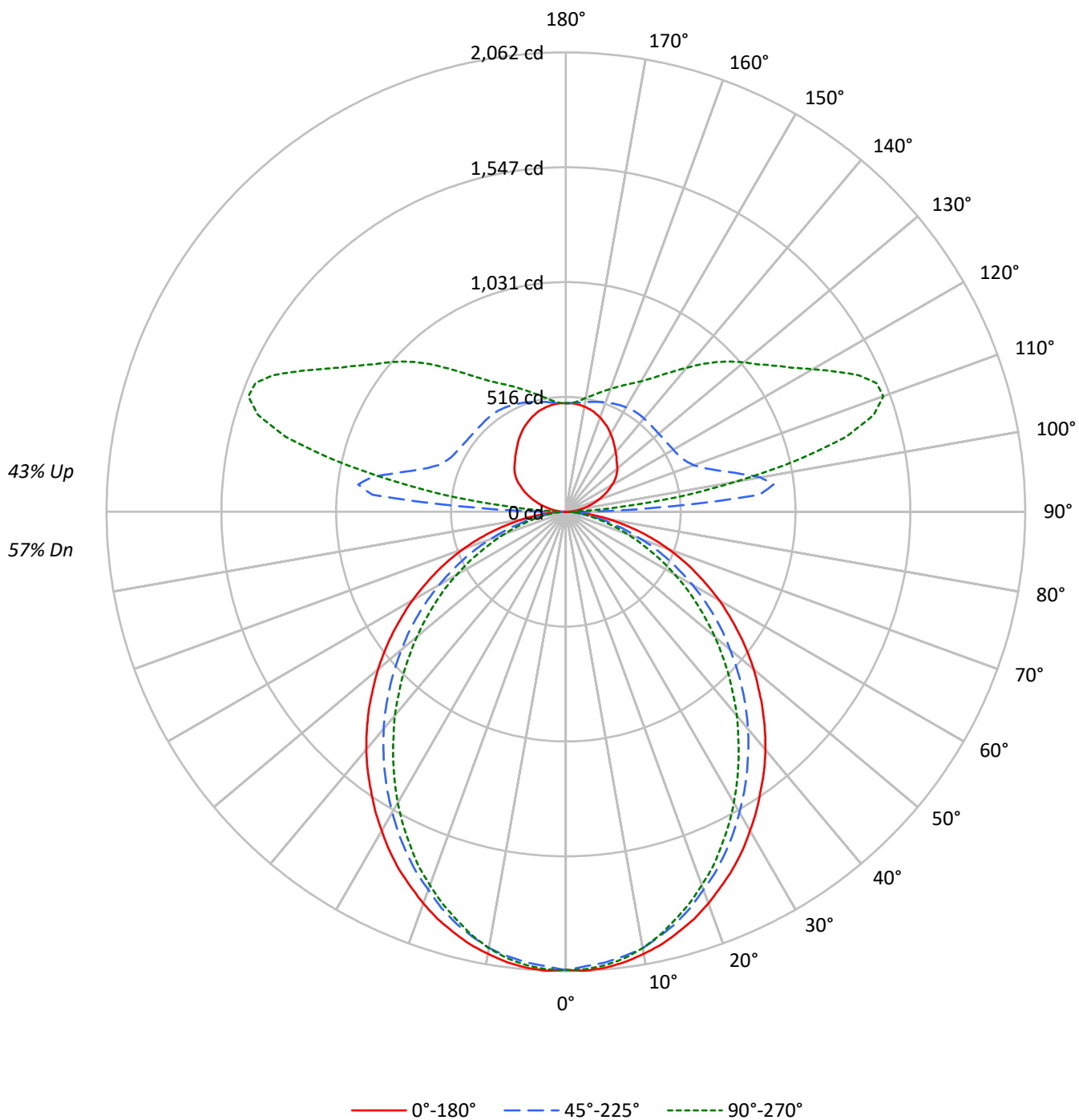
Lumens per Lamp: N/A
Luminaire Lumens: 8530.5 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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: P1028585

CATALOG NUMBER: S125RDIP-B1270D1090UB40-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028585

CATALOG NUMBER: S125RDIP-B1270D1090UB40-4F0-XX-W2A-F4

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	101	101	101	101	87	87	87	74	74	74	63	63	63
1	100	95	92	88	93	89	86	83	77	74	72	66	64	63	56	55	53
2	91	84	77	72	84	78	73	68	68	64	60	58	55	53	49	47	45
3	83	74	66	61	77	69	62	57	60	55	51	52	48	45	44	41	39
4	76	65	57	51	71	61	54	49	53	48	44	46	42	39	39	36	34
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	29
6	65	52	44	39	60	49	42	37	43	37	33	38	33	30	32	29	26
7	60	47	40	34	56	45	37	32	39	33	29	34	30	26	30	26	23
8	56	43	35	30	52	41	34	29	36	30	26	31	27	23	27	24	21
9	52	40	32	27	48	37	30	26	33	27	23	29	24	21	25	22	19
10	48	36	29	24	45	34	28	23	30	25	21	27	22	19	23	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13179	13179	13179
5°	13181	12851	12872
10°	13053	12527	12417
15°	12868	12074	11818
20°	12639	11528	11191
25°	12376	10996	10519
30°	12056	10411	9812
35°	11728	9816	9062
40°	11416	9205	8328
45°	11042	8546	7561
50°	10662	7846	6779
55°	10221	7158	5970
60°	9771	6369	5131
65°	9233	5489	4225
70°	8605	4468	3325
75°	7739	3359	2424
80°	6528	2176	1634
85°	4888	1169	921

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11042 cd/sqm

TEST NUMBER: P1028585

CATALOG NUMBER: S125RDIP-B1270D1090UB40-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.6	2.3
10°-20°	541.0	6.3
20°-30°	784.5	9.2
30°-40°	893.8	10.5
40°-50°	871.1	10.2
50°-60°	733.1	8.6
60°-70°	513.8	6.0
70°-80°	263.4	3.1
80°-90°	67.7	0.8
90°-100°	367.0	4.3
100°-110°	762.4	8.9
110°-120°	712.1	8.3
120°-130°	576.2	6.8
130°-140°	463.0	5.4
140°-150°	349.5	4.1
150°-160°	246.1	2.9
160°-170°	145.0	1.7
170°-180°	47.2	0.6
0°-30°	1519.1	17.8
0°-40°	2412.9	28.3
0°-60°	4017.2	47.1
0°-90°	4862.0	57.0
90°-120°	1841.6	21.6
90°-150°	3230.3	37.9
90°-180°	3669.0	43.0
0°-180°	8530.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2057	2057	2057	2057	2057	
5°	2054	2048	2031	2046	2043	195
15°	1953	1944	1911	1909	1895	551
25°	1771	1748	1690	1670	1653	815
35°	1526	1488	1418	1373	1352	955
45°	1249	1204	1119	1056	1033	963
55°	948	898	811	741	716	847
65°	642	589	506	444	421	635
75°	342	295	230	196	185	361
85°	86	58	50	48	47	94
90°	1	9	16	21	23	7
95°	32	96	871	395	231	34
105°	111	155	712	1403	1302	117
115°	198	239	572	1233	1450	195
125°	275	322	548	981	1143	244
135°	322	388	544	822	949	250
145°	375	430	546	681	749	235
155°	428	461	533	602	628	197
165°	468	481	511	542	550	132
175°	486	486	490	496	494	46
180°	487	487	487	487	487	

TEST NUMBER: P1028585

CATALOG NUMBER: S125RDIP-B1270D1090UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2057.0	2057.0	2057.0	2057.0	2057.0
2.5°	2061.7	2057.0	2041.5	2057.0	2055.5
5°	2053.9	2047.7	2030.6	2046.1	2043.0
7.5°	2038.4	2032.2	2012.0	2024.4	2021.3
10°	2015.1	2010.4	1988.7	1993.3	1988.7
12.5°	1988.7	1982.4	1951.4	1954.5	1946.7
15°	1952.9	1943.6	1911.0	1909.4	1895.4
17.5°	1915.6	1901.7	1862.8	1855.0	1844.2
20°	1870.6	1855.0	1805.3	1797.6	1783.6
22.5°	1820.9	1805.3	1752.5	1735.4	1724.5
25°	1771.1	1747.8	1690.4	1670.2	1653.1
27.5°	1715.2	1687.3	1626.7	1600.2	1583.2
30°	1653.1	1623.6	1558.3	1522.6	1508.6
32.5°	1592.5	1556.7	1489.9	1449.5	1430.9
35°	1525.7	1488.4	1418.5	1373.4	1351.7
37.5°	1462.0	1416.9	1345.5	1292.6	1270.9
40°	1393.6	1347.0	1272.4	1213.4	1194.7
42.5°	1322.1	1274.0	1196.3	1140.4	1110.9
45°	1249.1	1204.1	1118.6	1056.5	1033.2
47.5°	1173.0	1126.4	1040.9	977.2	950.8
50°	1101.5	1050.3	961.7	896.4	873.1
52.5°	1023.8	971.0	888.7	817.2	793.9
55°	947.7	898.0	811.0	741.1	716.2
57.5°	870.0	817.2	733.3	665.0	643.2
60°	795.5	741.1	657.2	588.8	565.5
62.5°	716.2	665.0	579.5	517.4	494.1
65°	641.7	588.8	506.5	444.3	421.0
67.5°	567.1	514.3	435.0	376.0	357.3
70°	490.9	438.1	360.4	312.3	293.6
72.5°	416.4	365.1	293.6	250.1	239.3
75°	341.8	295.2	229.9	195.8	184.9
77.5°	265.7	228.4	174.0	147.6	138.3
80°	202.0	164.7	121.2	107.2	104.1
82.5°	139.8	107.2	80.8	76.1	74.6
85°	85.5	57.5	49.7	48.2	46.6
87.5°	35.7	24.9	23.3	23.3	21.8
90°	1.0	8.9	15.7	20.6	22.6
92.5°	14.7	80.6	392.1	104.6	72.7
95°	32.4	95.8	870.7	395.0	230.9
97.5°	50.1	103.7	940.5	713.4	506.1
100°	68.8	118.9	887.4	1008.3	766.5
102.5°	89.4	136.2	794.0	1257.8	1057.4
105°	111.0	155.2	712.5	1402.8	1302.1
107.5°	131.7	175.4	651.5	1443.6	1449.5
110°	154.3	196.6	611.3	1404.8	1516.3



TEST NUMBER: P1028585

CATALOG NUMBER: S125RDIP-B1270D1090UB40-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.9	217.7	587.7	1323.7	1508.5
115°	198.5	239.3	571.9	1232.8	1450.5
117.5°	218.2	261.4	563.1	1150.3	1363.0
120°	237.8	282.5	557.2	1081.0	1278.5
122.5°	258.5	303.2	552.3	1025.5	1203.8
125°	275.2	322.4	548.4	980.8	1142.9
127.5°	288.9	341.0	546.4	942.4	1086.9
130°	301.7	358.7	544.4	903.6	1042.7
132.5°	311.5	374.4	544.4	861.8	998.4
135°	322.3	387.6	544.4	822.0	949.3
137.5°	336.1	400.0	545.4	780.2	898.2
140°	347.9	410.3	546.4	742.0	844.2
142.5°	361.6	420.1	547.4	709.0	794.0
145°	375.4	429.9	546.4	680.6	748.8
147.5°	390.1	438.8	544.4	656.0	708.5
150°	402.9	446.6	541.5	635.8	676.1
152.5°	416.7	454.5	537.5	618.6	650.6
155°	428.5	460.9	532.6	601.9	628.0
157.5°	439.3	467.3	527.7	586.2	607.3
160°	450.1	472.2	522.8	570.4	586.7
162.5°	458.9	477.1	516.9	556.2	568.0
165°	467.8	480.6	511.0	542.0	550.3
167.5°	473.7	482.5	505.1	528.7	533.6
170°	479.6	485.0	500.2	515.9	518.9
172.5°	483.5	486.0	494.3	505.6	505.1
175°	486.4	486.4	490.4	496.3	494.3
177.5°	488.4	486.4	487.4	490.4	487.4
180°	487.4	487.4	487.4	487.4	487.4

(END OF REPORT)