

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: P1028597

Luminaire Tested: S125RDIP-B1270D1270UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028597
REPORT IS A COMBINATION OF REPORTS P1005164 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D1270UB27-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

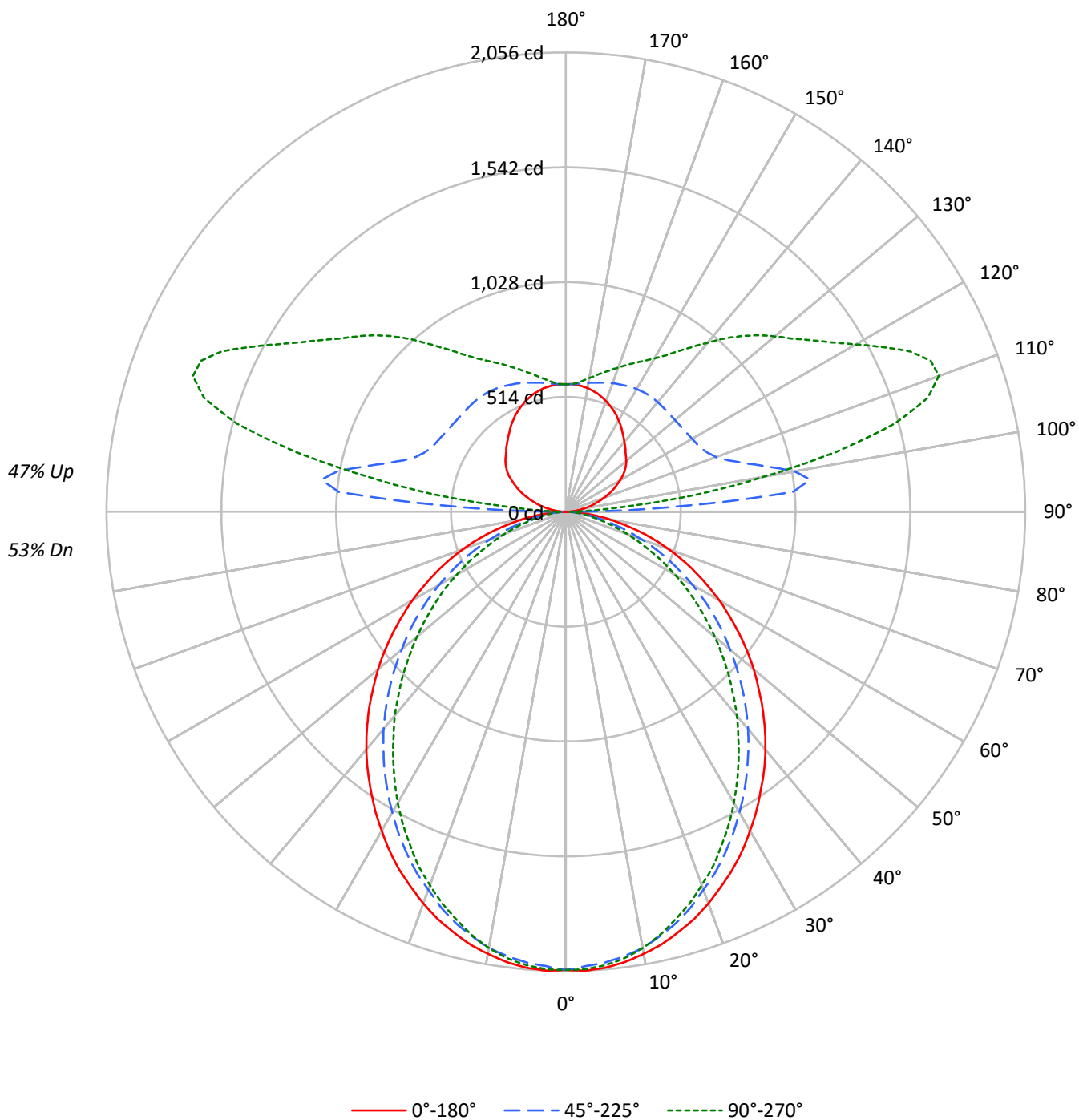
Lumens per Lamp: N/A
Luminaire Lumens: 9145.8 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 96.3
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: P1028597

CATALOG NUMBER: S125RDIP-B1270D1270UB27-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028597

CATALOG NUMBER: S125RDIP-B1270D1270UB27-4F0-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	108	108	108	108	100	100	100	100	85	85	85	71	71	71	59	59	59
1	99	94	91	87	91	88	84	81	75	73	70	63	62	60	52	51	50
2	90	83	77	72	83	77	72	67	66	62	59	56	53	50	46	44	43
3	82	73	66	60	76	68	61	56	58	53	50	50	46	43	41	39	37
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	33	30	28
6	64	52	44	38	59	48	41	36	42	36	32	36	32	28	30	27	24
7	59	47	39	33	55	44	37	32	38	33	28	33	28	25	28	24	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	32	26	47	37	30	25	32	27	23	28	23	20	24	20	18
10	48	36	29	24	44	34	27	23	30	24	20	26	21	18	22	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13142	13142	13142
5°	13143	12814	12834
10°	13015	12491	12381
15°	12831	12039	11785
20°	12603	11495	11159
25°	12341	10964	10488
30°	12021	10380	9784
35°	11694	9788	9036
40°	11384	9179	8305
45°	11010	8521	7540
50°	10632	7823	6760
55°	10192	7137	5954
60°	9742	6351	5116
65°	9206	5473	4213
70°	8580	4455	3316
75°	7717	3350	2417
80°	6508	2169	1630
85°	4871	1166	919

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11010 cd/sqm

TEST NUMBER: P1028597

CATALOG NUMBER: S125RDIP-B1270D1270UB27-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	2.1
10°-20°	539.5	5.9
20°-30°	782.2	8.6
30°-40°	891.2	9.7
40°-50°	868.6	9.5
50°-60°	731.0	8.0
60°-70°	512.3	5.6
70°-80°	262.6	2.9
80°-90°	67.8	0.7
90°-100°	430.0	4.7
100°-110°	893.1	9.8
110°-120°	834.2	9.1
120°-130°	675.0	7.4
130°-140°	542.4	5.9
140°-150°	409.4	4.5
150°-160°	288.2	3.2
160°-170°	169.9	1.9
170°-180°	55.2	0.6
0°-30°	1514.8	16.6
0°-40°	2405.9	26.3
0°-60°	4005.6	43.8
0°-90°	4848.3	53.0
90°-120°	2157.3	23.6
90°-150°	3784.1	41.4
90°-180°	4298.0	47.0
0°-180°	9145.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2051	2051	2051	2051	2051	
5°	2048	2042	2025	2040	2037	194
15°	1947	1938	1906	1904	1890	549
25°	1766	1743	1686	1665	1648	813
35°	1521	1484	1414	1370	1348	953
45°	1246	1201	1115	1053	1030	961
55°	945	895	809	739	714	845
65°	640	587	505	443	420	634
75°	341	294	229	195	184	360
85°	85	57	50	48	46	93
90°	1	10	18	24	26	8
95°	38	112	1020	463	270	40
105°	130	182	835	1643	1525	137
115°	232	280	670	1444	1699	229
125°	322	378	642	1149	1339	286
135°	378	454	638	963	1112	293
145°	440	504	640	797	877	276
155°	502	540	624	705	736	231
165°	548	563	599	635	645	154
175°	570	570	574	581	579	54
180°	571	571	571	571	571	

TEST NUMBER: P1028597

CATALOG NUMBER: S125RDIP-B1270D1270UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2051.1	2051.1	2051.1	2051.1	2051.1
2.5°	2055.7	2051.1	2035.6	2051.1	2049.5
5°	2048.0	2041.8	2024.8	2040.2	2037.1
7.5°	2032.5	2026.3	2006.2	2018.6	2015.5
10°	2009.3	2004.6	1982.9	1987.6	1982.9
12.5°	1982.9	1976.7	1945.7	1948.8	1941.1
15°	1947.3	1938.0	1905.5	1903.9	1890.0
17.5°	1910.1	1896.2	1857.4	1849.7	1838.9
20°	1865.2	1849.7	1800.1	1792.4	1778.4
22.5°	1815.6	1800.1	1747.5	1730.4	1719.6
25°	1766.0	1742.8	1685.5	1665.4	1648.3
27.5°	1710.3	1682.4	1622.0	1595.6	1578.6
30°	1648.3	1618.9	1553.8	1518.2	1504.2
32.5°	1587.9	1552.3	1485.6	1445.4	1426.8
35°	1521.3	1484.1	1414.4	1369.5	1347.8
37.5°	1457.8	1412.8	1341.6	1288.9	1267.2
40°	1389.6	1343.1	1268.8	1209.9	1191.3
42.5°	1318.3	1270.3	1192.9	1137.1	1107.7
45°	1245.5	1200.6	1115.4	1053.4	1030.2
47.5°	1169.6	1123.1	1037.9	974.4	948.1
50°	1098.4	1047.2	958.9	893.9	870.6
52.5°	1020.9	968.2	886.1	814.9	791.6
55°	945.0	895.4	808.7	739.0	714.2
57.5°	867.5	814.9	731.2	663.0	641.4
60°	793.2	739.0	655.3	587.1	563.9
62.5°	714.2	663.0	577.8	515.9	492.6
65°	639.8	587.1	505.0	443.1	419.8
67.5°	565.4	512.8	433.8	374.9	356.3
70°	489.5	436.9	359.4	311.4	292.8
72.5°	415.2	364.1	292.8	249.4	238.6
75°	340.8	294.3	229.3	195.2	184.4
77.5°	264.9	227.7	173.5	147.2	137.9
80°	201.4	164.2	120.8	106.9	103.8
82.5°	139.4	106.9	80.6	75.9	74.4
85°	85.2	57.3	49.6	48.0	46.5
87.5°	35.6	24.8	23.2	23.2	21.7
90°	1.2	10.4	18.4	24.2	26.5
92.5°	17.3	94.4	459.3	122.6	85.2
95°	38.0	112.2	1020.0	462.8	270.5
97.5°	58.7	121.4	1101.7	835.8	592.9
100°	80.6	139.3	1039.5	1181.2	897.9
102.5°	104.8	159.4	930.2	1473.5	1238.7
105°	130.1	181.9	834.6	1643.4	1525.3
107.5°	154.3	205.5	763.2	1691.1	1698.0
110°	180.7	230.2	716.0	1645.6	1776.3



TEST NUMBER: P1028597

CATALOG NUMBER: S125RDIP-B1270D1270UB27-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	207.2	255.0	688.4	1550.6	1767.1
115°	232.5	280.3	670.0	1444.2	1699.2
117.5°	255.6	306.2	659.6	1347.5	1596.7
120°	278.6	331.0	652.7	1266.4	1497.7
122.5°	302.8	355.2	647.0	1201.3	1410.2
125°	322.3	377.6	642.4	1148.9	1338.8
127.5°	338.5	399.4	640.1	1104.0	1273.2
130°	353.4	420.2	637.8	1058.5	1221.4
132.5°	364.9	438.6	637.8	1009.6	1169.6
135°	377.6	454.2	637.8	963.0	1112.1
137.5°	393.7	468.6	638.9	914.0	1052.2
140°	407.5	480.6	640.1	869.2	988.9
142.5°	423.6	492.1	641.2	830.6	930.2
145°	439.8	503.6	640.1	797.2	877.2
147.5°	457.0	514.0	637.8	768.4	830.0
150°	472.0	523.2	634.3	744.8	792.0
152.5°	488.1	532.4	629.7	724.7	762.1
155°	501.9	540.0	623.9	705.1	735.6
157.5°	514.6	547.4	618.2	686.7	711.4
160°	527.2	553.2	612.4	668.2	687.3
162.5°	537.6	558.9	605.5	651.6	665.4
165°	548.0	563.0	598.6	634.9	644.7
167.5°	554.9	565.2	591.7	619.3	625.1
170°	561.8	568.1	586.0	604.4	607.8
172.5°	566.4	569.2	579.1	592.3	591.7
175°	569.8	569.8	574.4	581.4	579.1
177.5°	572.1	569.8	571.0	574.4	571.0
180°	571.0	571.0	571.0	571.0	571.0

(END OF REPORT)