

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: P1028633

Luminaire Tested: S125RDIP-B1270D375UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028633
REPORT IS A COMBINATION OF REPORTS P1005220 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D375UB30-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

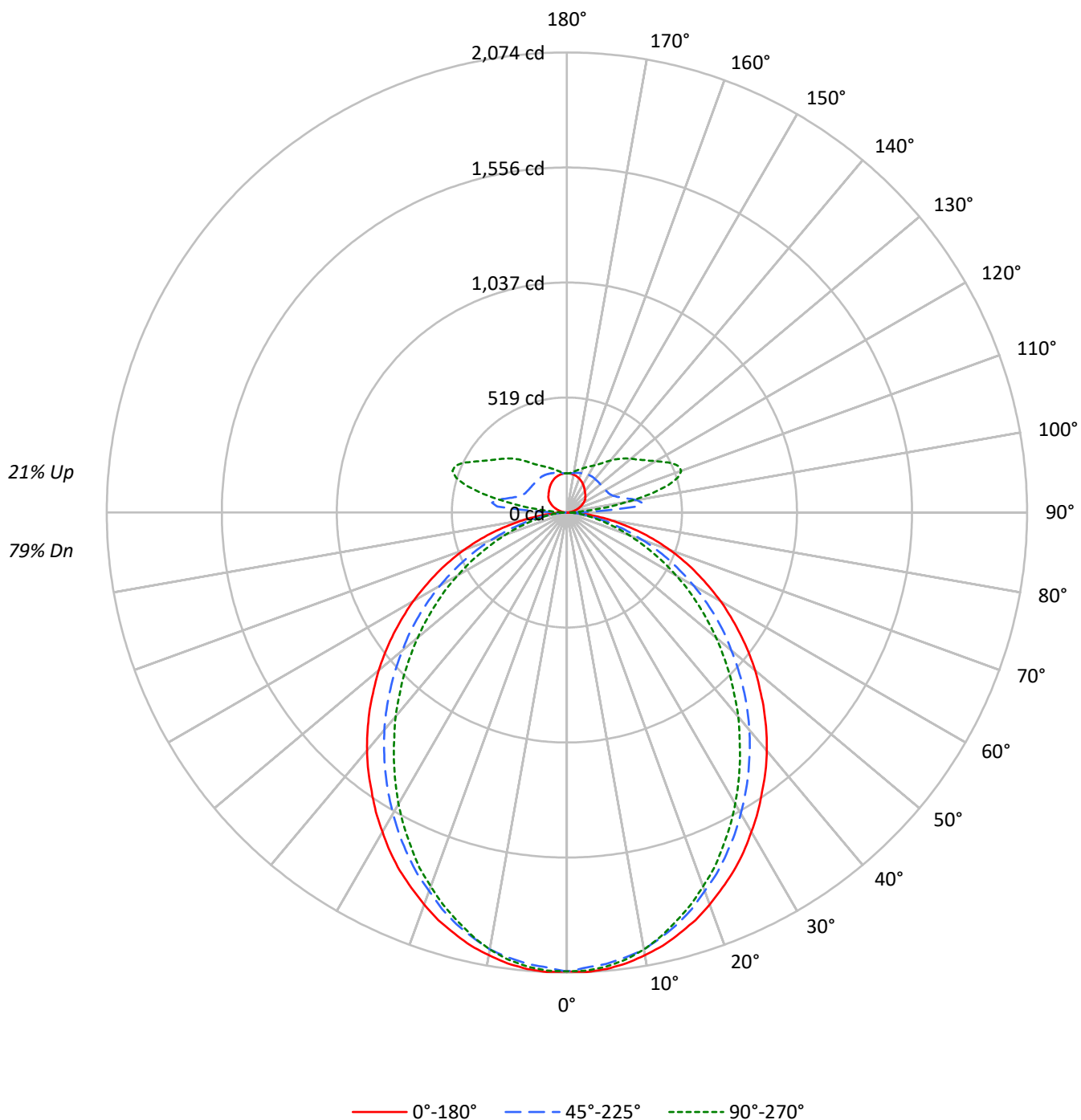
Lumens per Lamp: N/A
Luminaire Lumens: 6215.7 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70.6
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: P1028633

CATALOG NUMBER: S125RDIP-B1270D375UB30-4F0-XX-W2A-F4

Luminous Intensity Polar Plot



TEST NUMBER: P1028633

CATALOG NUMBER: S125RDIP-B1270D375UB30-4F0-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	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82
1	105	100	96	93	100	96	92	89	88	85	83	80	78	76	74	72	70
2	96	88	82	76	91	84	79	74	77	73	69	71	67	64	65	62	60
3	87	78	70	64	83	75	68	62	69	63	58	63	59	55	58	54	51
4	80	69	61	55	76	66	59	53	61	55	50	56	51	47	52	48	44
5	74	62	53	47	70	60	52	46	55	49	44	51	46	41	47	43	39
6	68	56	47	41	65	54	46	40	50	43	38	46	41	36	43	38	34
7	63	51	42	37	60	49	41	36	45	39	34	42	37	32	39	34	31
8	59	46	38	33	56	45	37	32	42	35	31	39	33	29	36	31	28
9	55	42	35	29	53	41	34	29	38	32	28	36	30	26	33	29	25
10	52	39	32	27	49	38	31	26	35	29	25	33	28	24	31	26	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13256	13256	13256
5°	13257	12925	12946
10°	13128	12599	12488
15°	12942	12144	11887
20°	12712	11595	11256
25°	12448	11059	10579
30°	12125	10471	9869
35°	11796	9872	9114
40°	11482	9259	8377
45°	11106	8595	7605
50°	10724	7891	6819
55°	10281	7199	6005
60°	9826	6406	5161
65°	9285	5520	4250
70°	8656	4494	3344
75°	7785	3379	2437
80°	6563	2189	1644
85°	4911	1176	926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 11106 cd/sqm

TEST NUMBER: P1028633

CATALOG NUMBER: S125RDIP-B1270D375UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.7	3.1
10°-20°	544.2	8.8
20°-30°	789.0	12.7
30°-40°	898.9	14.5
40°-50°	876.2	14.1
50°-60°	737.4	11.9
60°-70°	516.7	8.3
70°-80°	264.9	4.3
80°-90°	66.8	1.1
90°-100°	132.8	2.1
100°-110°	275.8	4.4
110°-120°	257.6	4.1
120°-130°	208.4	3.4
130°-140°	167.5	2.7
140°-150°	126.4	2.0
150°-160°	89.0	1.4
160°-170°	52.5	0.8
170°-180°	17.1	0.3
0°-30°	1527.9	24.6
0°-40°	2426.8	39.0
0°-60°	4040.3	65.0
0°-90°	4888.7	78.7
90°-120°	666.2	10.7
90°-150°	1168.5	18.8
90°-180°	1327.0	21.3
0°-180°	6215.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2069	2069	2069	2069	2069	
5°	2066	2060	2042	2058	2055	196
15°	1964	1955	1922	1920	1906	554
25°	1781	1758	1700	1680	1663	820
35°	1534	1497	1427	1381	1360	961
45°	1256	1211	1125	1063	1039	969
55°	953	903	816	745	720	852
65°	645	592	509	447	424	639
75°	344	297	231	197	186	363
85°	86	58	50	48	47	94
90°	0	3	6	7	8	6
95°	12	35	315	143	84	12
105°	40	56	258	507	471	42
115°	72	87	207	446	525	71
125°	100	117	198	355	413	88
135°	117	140	197	297	343	90
145°	136	156	198	246	271	85
155°	155	167	193	218	227	71
165°	169	174	185	196	199	48
175°	176	176	177	180	179	17
180°	176	176	176	176	176	

TEST NUMBER: P1028633

CATALOG NUMBER: S125RDIP-B1270D375UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2068.9	2068.9	2068.9	2068.9	2068.9
2.5°	2073.6	2068.9	2053.2	2068.9	2067.3
5°	2065.7	2059.5	2042.3	2057.9	2054.8
7.5°	2050.1	2043.9	2023.6	2036.1	2032.9
10°	2026.7	2022.0	2000.1	2004.8	2000.1
12.5°	2000.1	1993.9	1962.6	1965.7	1957.9
15°	1964.2	1954.8	1922.0	1920.4	1906.4
17.5°	1926.7	1912.6	1873.5	1865.7	1854.8
20°	1881.4	1865.7	1815.7	1807.9	1793.9
22.5°	1831.4	1815.7	1762.6	1745.4	1734.5
25°	1781.4	1757.9	1700.1	1679.8	1662.6
27.5°	1725.1	1697.0	1636.0	1609.5	1592.3
30°	1662.6	1632.9	1567.3	1531.3	1517.3
32.5°	1601.7	1565.7	1498.5	1457.9	1439.1
35°	1534.5	1497.0	1426.6	1381.3	1359.5
37.5°	1470.4	1425.1	1353.2	1300.1	1278.2
40°	1401.6	1354.8	1279.8	1220.4	1201.6
42.5°	1329.8	1281.3	1203.2	1146.9	1117.3
45°	1256.3	1211.0	1125.1	1062.6	1039.1
47.5°	1179.8	1132.9	1046.9	982.9	956.3
50°	1107.9	1056.3	967.2	901.6	878.2
52.5°	1029.7	976.6	893.8	821.9	798.5
55°	953.2	903.2	815.7	745.4	720.4
57.5°	875.1	821.9	737.5	668.8	646.9
60°	800.0	745.4	661.0	592.2	568.8
62.5°	720.4	668.8	582.8	520.3	496.9
65°	645.3	592.2	509.4	446.9	423.5
67.5°	570.3	517.2	437.5	378.1	359.4
70°	493.8	440.7	362.5	314.1	295.3
72.5°	418.8	367.2	295.3	251.6	240.6
75°	343.8	296.9	231.3	196.9	185.9
77.5°	267.2	229.7	175.0	148.4	139.1
80°	203.1	165.6	121.9	107.8	104.7
82.5°	140.6	107.8	81.3	76.6	75.0
85°	85.9	57.8	50.0	48.4	46.9
87.5°	35.9	25.0	23.4	23.4	21.9
90°	0.4	3.2	5.7	7.4	8.2
92.5°	5.3	29.2	141.8	37.8	26.3
95°	11.7	34.7	314.9	142.9	83.5
97.5°	18.1	37.5	340.2	258.0	183.1
100°	24.9	43.0	321.0	364.7	277.3
102.5°	32.3	49.2	287.2	455.0	382.5
105°	40.2	56.2	257.7	507.4	471.0
107.5°	47.6	63.4	235.7	522.2	524.3
110°	55.8	71.1	221.1	508.2	548.5



TEST NUMBER: P1028633

CATALOG NUMBER: S125RDIP-B1270D375UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.0	78.8	212.6	478.8	545.7
115°	71.8	86.6	206.9	446.0	524.7
117.5°	78.9	94.6	203.7	416.1	493.0
120°	86.0	102.2	201.6	391.0	462.5
122.5°	93.5	109.6	199.8	370.9	435.5
125°	99.5	116.6	198.4	354.8	413.4
127.5°	104.5	123.4	197.6	340.9	393.2
130°	109.1	129.8	196.9	326.8	377.2
132.5°	112.7	135.4	196.9	311.8	361.2
135°	116.6	140.2	196.9	297.4	343.4
137.5°	121.6	144.7	197.3	282.2	324.9
140°	125.8	148.4	197.6	268.4	305.4
142.5°	130.8	152.0	198.0	256.5	287.2
145°	135.8	155.5	197.6	246.2	270.9
147.5°	141.1	158.8	196.9	237.2	256.3
150°	145.7	161.6	195.9	230.0	244.6
152.5°	150.7	164.4	194.4	223.8	235.3
155°	155.0	166.7	192.7	217.8	227.1
157.5°	158.9	169.0	190.9	212.0	219.7
160°	162.8	170.8	189.1	206.4	212.2
162.5°	166.0	172.6	187.0	201.2	205.5
165°	169.2	173.9	184.8	196.0	199.1
167.5°	171.3	174.5	182.7	191.2	193.0
170°	173.5	175.4	180.9	186.6	187.7
172.5°	174.9	175.8	178.8	182.9	182.7
175°	176.0	176.0	177.4	179.5	178.8
177.5°	176.7	176.0	176.3	177.4	176.3
180°	176.3	176.3	176.3	176.3	176.3

(END OF REPORT)