

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: P1027139

Luminaire Tested: S125RDIP-B1270D610UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1027139
REPORT IS A COMBINATION OF REPORTS P1005250 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D610UB2750-4F0-XX-W2A-F_2700K
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

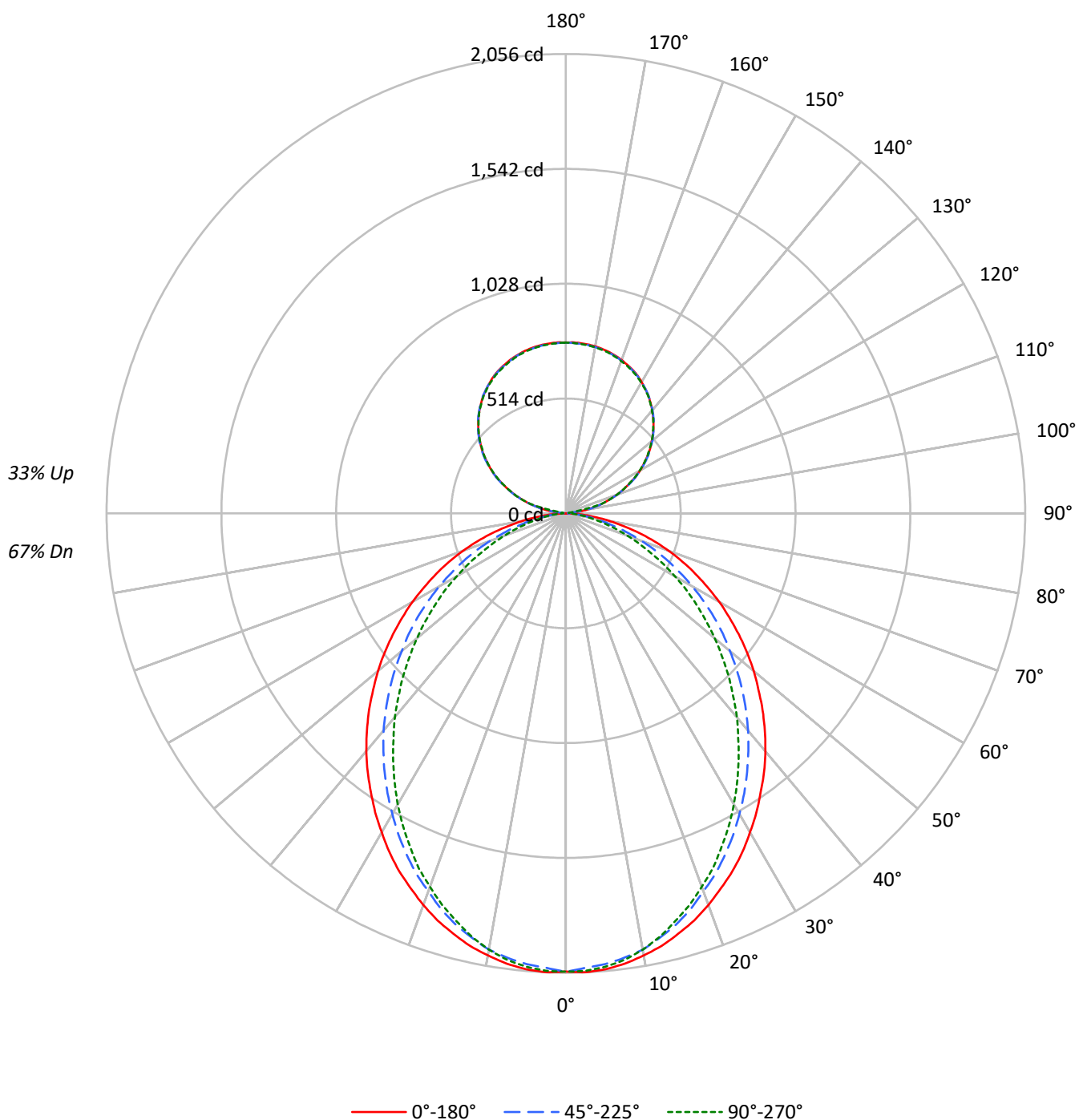
Lumens per Lamp: N/A
Luminaire Lumens: 7196.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 76.7
Input Voltage (V): 120
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

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Luminous Intensity Polar Plot



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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
RCR																	
0	111	111	111	111	105	105	105	105	93	93	93		82	82	82		72
1	102	98	94	90	96	92	89	86	82	80	77		73	71	69		64
2	93	86	79	74	88	81	76	71	72	68	64		64	61	58		57
3	85	76	68	62	80	72	65	60	64	59	54		57	53	50		51
4	78	67	59	53	73	64	56	51	57	51	47		51	46	43		45
5	72	60	52	46	68	57	50	44	51	45	41		46	41	37		41
6	66	54	46	40	62	51	44	38	46	40	36		42	37	33		37
7	61	49	41	35	58	47	39	34	42	36	32		38	33	29		34
8	57	45	37	31	54	43	35	30	39	33	28		35	30	26		31
9	53	41	33	28	50	39	32	27	36	30	25		32	27	24		29
10	50	38	30	25	47	36	29	25	33	27	23		30	25	21		27

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.0	2.7
10°-20°	539.5	7.5
20°-30°	782.2	10.9
30°-40°	891.2	12.4
40°-50°	868.6	12.1
50°-60°	731.0	10.2
60°-70°	512.3	7.1
70°-80°	262.6	3.6
80°-90°	66.6	0.9
90°-100°	26.0	0.4
100°-110°	172.6	2.4
110°-120°	310.8	4.3
120°-130°	398.9	5.5
130°-140°	429.0	6.0
140°-150°	402.7	5.6
150°-160°	325.7	4.5
160°-170°	210.6	2.9
170°-180°	72.6	1.0
0°-30°	1514.8	21.1
0°-40°	2405.9	33.4
0°-60°	4005.6	55.7
0°-90°	4847.1	67.4
90°-120°	509.3	7.1
90°-150°	1739.8	24.2
90°-180°	2349.0	32.6
0°-180°	7196.0	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	5	9	12	14	7
95°	32	31	9	12	12	40
105°	167	169	169	169	168	177
115°	313	316	316	314	311	310
125°	445	449	449	447	445	397
135°	555	558	557	556	553	428
145°	643	644	644	645	642	402
155°	708	705	706	708	703	326
165°	748	744	745	748	744	211
175°	765	761	762	766	761	73
180°	765	765	765	765	765	

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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°	0.6	5.1	9.1	11.9	13.6
92.5°	10.8	5.7	9.1	11.9	12.5
95°	32.3	30.6	9.1	11.9	11.9
97.5°	60.7	64.1	10.2	11.3	11.9
100°	94.7	96.4	98.6	14.2	11.9
102.5°	129.2	131.5	132.6	133.8	86.2
105°	166.6	168.9	168.9	168.9	168.3
107.5°	205.2	205.2	206.3	206.9	204.6
110°	242.6	242.6	243.7	242.0	242.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	277.7	279.4	280.0	277.7	276.6
115°	312.9	315.7	316.3	314.0	310.6
117.5°	349.7	349.7	352.0	348.6	347.5
120°	383.7	383.2	384.9	383.7	380.9
122.5°	413.8	416.6	417.2	416.1	412.7
125°	445.0	448.9	448.9	446.7	445.0
127.5°	475.0	477.8	477.3	476.1	471.6
130°	502.2	505.0	505.6	503.9	501.1
132.5°	529.4	532.8	531.1	531.1	528.3
135°	554.9	558.3	557.2	556.1	552.7
137.5°	578.7	582.1	581.0	581.0	578.2
140°	602.0	603.1	602.5	603.7	600.3
142.5°	622.9	623.5	624.6	624.6	621.2
145°	643.4	644.5	644.5	645.1	641.7
147.5°	661.5	661.5	662.1	662.6	658.7
150°	678.5	677.4	678.5	679.6	675.1
152.5°	694.9	692.1	693.2	694.4	690.4
155°	708.5	705.1	706.3	708.0	703.4
157.5°	719.3	717.6	717.6	719.3	714.8
160°	730.6	727.2	727.8	730.1	725.5
162.5°	739.7	736.3	736.9	740.3	735.2
165°	747.7	744.3	744.8	748.2	743.7
167.5°	753.9	750.5	751.1	755.0	749.9
170°	759.0	755.0	755.6	760.1	755.0
172.5°	762.4	758.4	759.6	763.5	758.4
175°	764.7	761.3	761.8	766.4	761.3
177.5°	766.4	763.0	763.5	767.5	763.0
180°	764.7	764.7	764.7	764.7	764.7

(END OF REPORT)