

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: P1028625

Luminaire Tested: S125RDIP-B1270D375UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028625
REPORT IS A COMBINATION OF REPORTS P1005202 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1270D375UB27-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

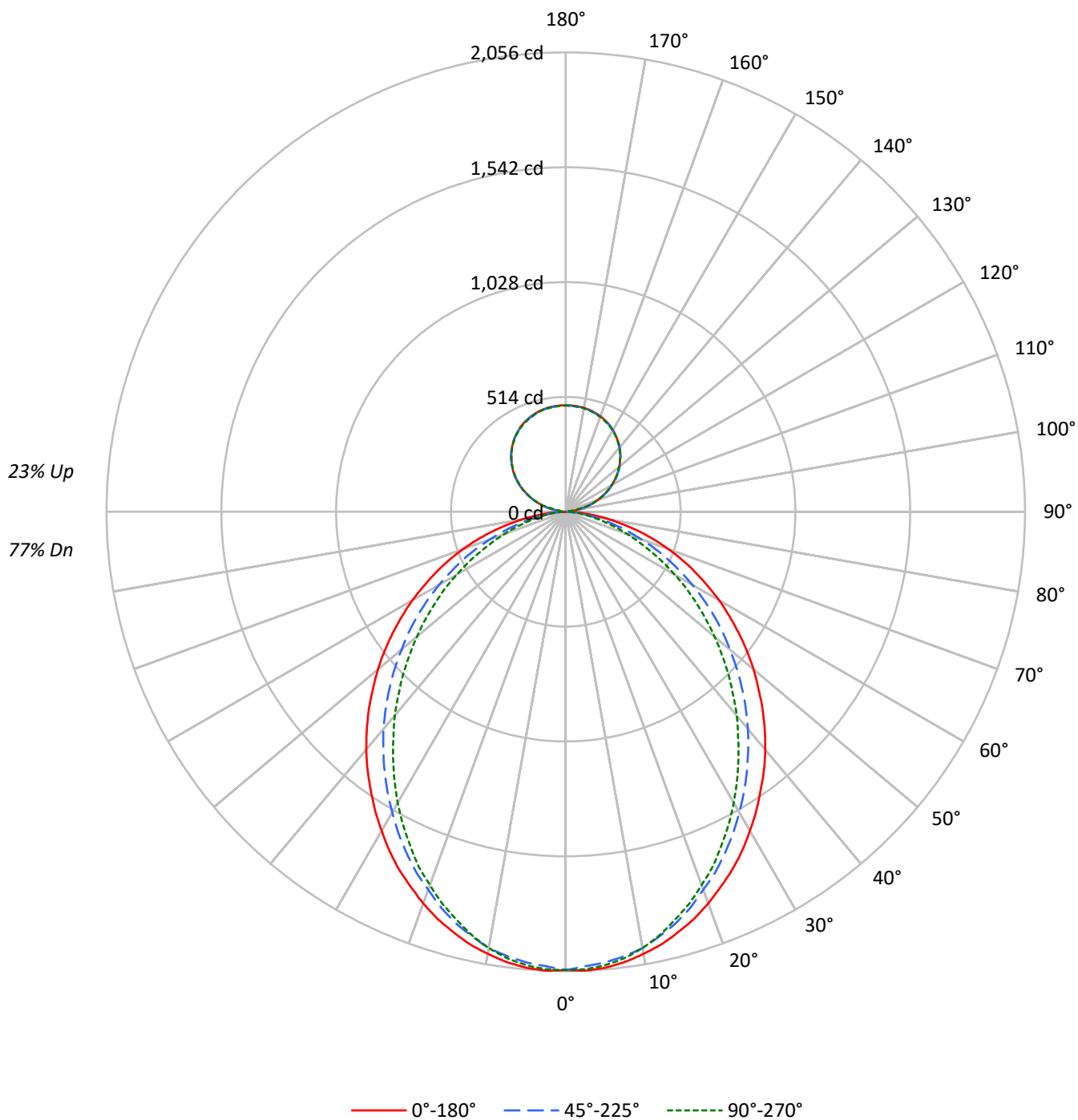
Lumens per Lamp: N/A
Luminaire Lumens: 6308.0 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	30	10
RCR																	
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69
2	95	88	81	76	90	84	78	73	77	72	68	70	66	63	64	61	59
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50
4	80	69	61	54	76	66	59	53	61	54	50	56	51	47	51	47	44
5	74	62	53	47	70	59	51	46	54	48	43	50	45	41	46	42	38
6	68	56	47	41	65	53	46	40	49	43	38	45	40	36	42	37	34
7	63	50	42	36	60	48	41	35	45	38	34	42	36	32	38	34	30
8	59	46	38	32	56	44	37	32	41	35	30	38	33	29	35	31	27
9	55	42	34	29	52	41	33	29	38	32	27	35	30	26	33	28	25
10	51	39	31	26	49	38	31	26	35	29	25	33	27	24	30	26	22

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	3.1
10°-20°	539.5	8.6
20°-30°	782.2	12.4
30°-40°	891.2	14.1
40°-50°	868.6	13.8
50°-60°	731.0	11.6
60°-70°	512.3	8.1
70°-80°	262.6	4.2
80°-90°	66.2	1.0
90°-100°	16.1	0.3
100°-110°	107.4	1.7
110°-120°	193.3	3.1
120°-130°	248.2	3.9
130°-140°	266.9	4.2
140°-150°	250.5	4.0
150°-160°	202.6	3.2
160°-170°	131.0	2.1
170°-180°	45.2	0.7
0°-30°	1514.8	24.0
0°-40°	2405.9	38.1
0°-60°	4005.6	63.5
0°-90°	4846.7	76.8
90°-120°	316.8	5.0
90°-150°	1082.4	17.2
90°-180°	1461.0	23.2
0°-180°	6308.0	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°	0	3	6	7	8	6
95°	20	19	6	7	7	25
105°	104	105	105	105	105	110
115°	195	196	197	195	193	193
125°	277	279	279	278	277	247
135°	345	347	347	346	344	266
145°	400	401	401	401	399	250
155°	441	439	439	440	438	203
165°	465	463	463	466	463	131
175°	476	474	474	477	474	45
180°	476	476	476	476	476	

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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°	0.4	3.2	5.6	7.4	8.5
92.5°	6.7	3.5	5.6	7.4	7.8
95°	20.1	19.0	5.6	7.4	7.4
97.5°	37.7	39.8	6.3	7.1	7.4
100°	58.9	59.9	61.4	8.8	7.4
102.5°	80.4	81.8	82.5	83.2	53.6
105°	103.7	105.1	105.1	105.1	104.7
107.5°	127.7	127.7	128.4	128.7	127.3
110°	150.9	150.9	151.6	150.6	150.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	172.8	173.9	174.2	172.8	172.1
115°	194.7	196.4	196.8	195.4	193.2
117.5°	217.6	217.6	219.0	216.9	216.2
120°	238.7	238.4	239.4	238.7	237.0
122.5°	257.4	259.2	259.5	258.8	256.7
125°	276.8	279.3	279.3	277.9	276.8
127.5°	295.5	297.3	296.9	296.2	293.4
130°	312.4	314.2	314.6	313.5	311.7
132.5°	329.4	331.5	330.4	330.4	328.7
135°	345.2	347.4	346.6	345.9	343.8
137.5°	360.0	362.2	361.5	361.5	359.7
140°	374.5	375.2	374.9	375.6	373.4
142.5°	387.6	387.9	388.6	388.6	386.5
145°	400.2	401.0	401.0	401.3	399.2
147.5°	411.5	411.5	411.9	412.2	409.8
150°	422.1	421.4	422.1	422.8	420.0
152.5°	432.3	430.6	431.3	432.0	429.5
155°	440.8	438.7	439.4	440.5	437.6
157.5°	447.5	446.4	446.4	447.5	444.7
160°	454.6	452.4	452.8	454.2	451.4
162.5°	460.2	458.1	458.4	460.6	457.4
165°	465.1	463.0	463.4	465.5	462.7
167.5°	469.0	466.9	467.3	469.7	466.5
170°	472.2	469.7	470.1	472.9	469.7
172.5°	474.3	471.8	472.5	475.0	471.8
175°	475.7	473.6	474.0	476.8	473.6
177.5°	476.8	474.7	475.0	477.5	474.7
180°	475.7	475.7	475.7	475.7	475.7

(END OF REPORT)