

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: P1028626

Luminaire Tested: S125RDIP-B1270D375UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028626
REPORT IS A COMBINATION OF REPORTS P1005203 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-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

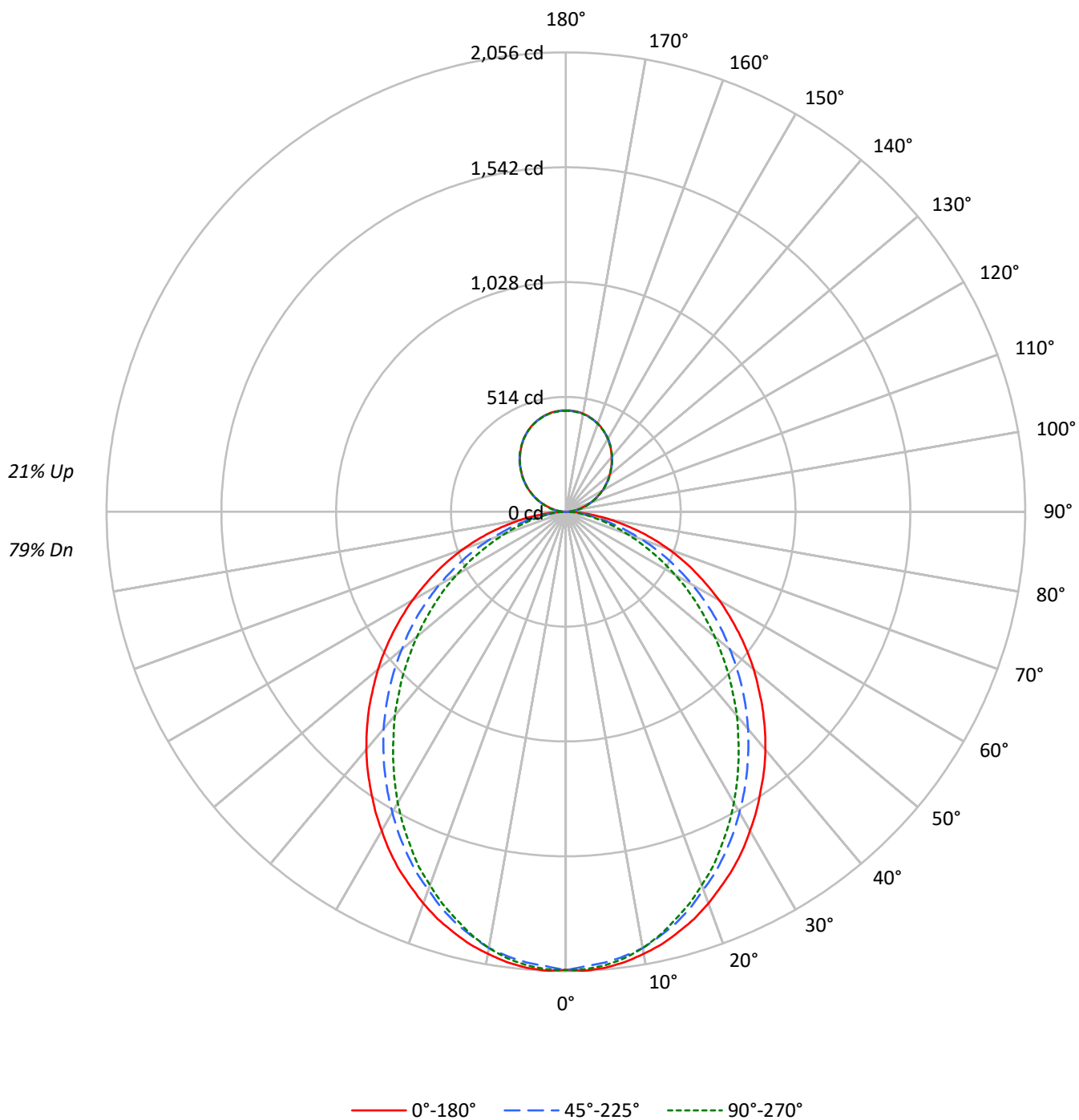
Lumens per Lamp: N/A
Luminaire Lumens: 6111.0 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	79			
1	105	100	96	93	100	96	93	89	88	85	83	81	79	77	74	72	71	68			
2	96	88	82	77	91	84	79	74	78	73	69	71	68	65	66	63	60	57			
3	88	78	70	64	83	75	68	62	69	63	59	63	59	55	58	55	52	49			
4	80	69	61	55	77	67	59	53	61	55	50	57	52	48	52	48	45	42			
5	74	62	54	47	70	60	52	46	55	49	44	51	46	42	47	43	39	37			
6	68	56	47	41	65	54	46	40	50	43	39	46	41	37	43	38	35	32			
7	63	51	42	37	61	49	41	36	46	39	34	42	37	33	39	35	31	29			
8	59	46	38	33	56	45	37	32	42	35	31	39	33	29	36	32	28	26			
9	55	42	35	29	53	41	34	29	38	32	28	36	30	26	34	29	25	23			
10	52	39	32	27	49	38	31	26	36	29	25	33	28	24	31	27	23	21			

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	3.2
10°-20°	539.5	8.8
20°-30°	782.2	12.8
30°-40°	891.2	14.6
40°-50°	868.6	14.2
50°-60°	731.0	12.0
60°-70°	512.3	8.4
70°-80°	262.6	4.3
80°-90°	66.2	1.1
90°-100°	30.1	0.5
100°-110°	89.5	1.5
110°-120°	151.8	2.5
120°-130°	199.8	3.3
130°-140°	223.9	3.7
140°-150°	219.5	3.6
150°-160°	184.3	3.0
160°-170°	122.5	2.0
170°-180°	42.9	0.7
0°-30°	1514.8	24.8
0°-40°	2405.9	39.4
0°-60°	4005.6	65.5
0°-90°	4846.7	79.3
90°-120°	271.4	4.4
90°-150°	914.6	15.0
90°-180°	1264.0	20.7
0°-180°	6111.0	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°	23	24	27	30	30	24
105°	80	82	84	86	87	86
115°	152	153	154	154	153	150
125°	222	224	224	224	223	199
135°	288	290	291	291	289	222
145°	349	351	352	352	351	218
155°	400	400	400	402	400	184
165°	435	434	434	436	434	123
175°	452	450	450	453	450	43
180°	453	453	453	453	453	

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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°	10.6	12.3	15.5	18.0	18.7
95°	22.9	23.6	27.1	29.6	30.3
97.5°	35.3	35.6	40.5	42.7	43.0
100°	49.4	49.4	53.9	57.1	57.8
102.5°	64.5	66.3	68.0	71.6	72.6
105°	80.4	82.1	84.3	86.4	87.4
107.5°	97.7	99.4	101.2	102.2	102.2
110°	115.6	117.4	118.5	119.5	119.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.0	134.7	136.1	136.4	135.7
115°	151.9	153.4	154.1	153.7	153.4
117.5°	170.3	170.6	171.3	171.7	170.3
120°	187.2	189.0	189.3	189.3	187.9
122.5°	205.5	205.9	206.9	206.6	205.5
125°	221.7	223.9	224.2	223.5	223.2
127.5°	239.7	240.8	241.1	240.8	240.1
130°	255.6	257.3	258.1	257.7	257.0
132.5°	271.4	274.6	274.3	273.9	272.9
135°	288.4	290.5	290.8	290.8	289.4
137.5°	304.2	306.3	307.1	307.4	305.6
140°	319.4	321.2	322.2	322.9	321.2
142.5°	334.6	336.0	337.4	337.7	336.0
145°	349.4	350.8	351.8	351.8	350.8
147.5°	363.1	364.2	364.9	365.9	363.1
150°	376.9	376.5	377.9	377.9	377.2
152.5°	388.1	388.8	389.2	390.3	388.8
155°	399.8	399.8	400.1	401.5	399.8
157.5°	410.3	409.6	410.0	411.4	408.9
160°	419.5	418.5	418.8	420.2	418.5
162.5°	427.6	426.9	426.9	428.7	426.6
165°	434.7	434.0	434.3	435.7	433.6
167.5°	441.0	439.6	439.6	441.7	439.6
170°	446.0	444.5	444.5	446.7	444.2
172.5°	449.5	448.1	448.1	450.2	448.1
175°	451.9	450.5	450.5	452.7	450.2
177.5°	453.7	452.3	451.9	454.1	451.6
180°	453.0	453.0	453.0	453.0	453.0

(END OF REPORT)