

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: P1028418

Luminaire Tested: S125RDIP-B1090D1090UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028418
REPORT IS A COMBINATION OF REPORTS P1004923 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1090UB27-4F0-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

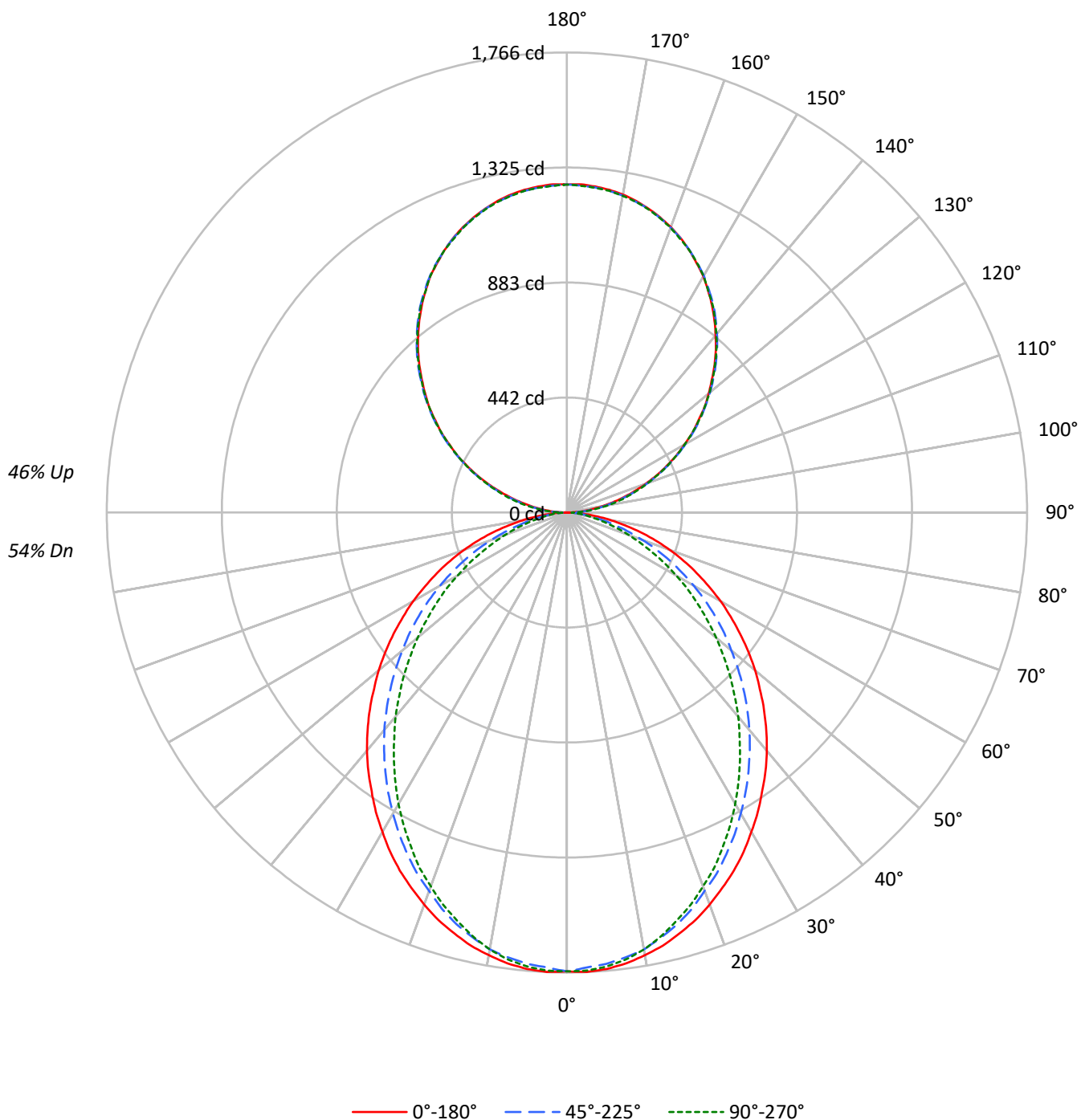
Lumens per Lamp: N/A
Luminaire Lumens: 7678.0 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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

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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	108	108	108	108	100	100	100	100	86	86	86		72	72	72		60
1	99	95	91	87	92	88	85	82	76	73	71		64	62	61		53
2	90	83	77	72	84	77	72	67	66	63	59		57	54	51		47
3	83	73	66	60	76	68	62	57	59	54	50		50	47	43		42
4	76	65	57	51	70	61	54	48	52	47	43		45	41	37		38
5	69	58	50	44	64	54	47	42	47	41	37		40	36	33		34
6	64	52	44	38	59	49	41	36	42	37	32		37	32	29		31
7	59	47	39	34	55	44	37	32	39	33	29		33	29	25		28
8	55	43	35	30	51	40	33	28	35	30	26		31	26	23		26
9	51	39	32	27	48	37	30	25	32	27	23		28	24	20		24
10	48	36	29	24	45	34	27	23	30	24	21		26	22	19		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11287	11287	11287
5°	11288	11005	11023
10°	11178	10728	10633
15°	11019	10340	10121
20°	10824	9873	9584
25°	10599	9417	9008
30°	10325	8915	8403
35°	10044	8406	7760
40°	9777	7883	7133
45°	9456	7319	6475
50°	9130	6720	5806
55°	8753	6129	5113
60°	8367	5454	4394
65°	7907	4700	3619
70°	7369	3827	2848
75°	6627	2877	2075
80°	5591	1864	1399
85°	4185	1002	788

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9456 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	2.2
10°-20°	463.3	6.0
20°-30°	671.8	8.7
30°-40°	765.4	10.0
40°-50°	746.0	9.7
50°-60°	627.8	8.2
60°-70°	440.0	5.7
70°-80°	225.6	2.9
80°-90°	58.2	0.8
90°-100°	83.7	1.1
100°-110°	248.7	3.2
110°-120°	421.8	5.5
120°-130°	555.3	7.2
130°-140°	622.3	8.1
140°-150°	610.0	7.9
150°-160°	512.4	6.7
160°-170°	340.6	4.4
170°-180°	119.2	1.6
0°-30°	1300.9	16.9
0°-40°	2066.3	26.9
0°-60°	3440.2	44.8
0°-90°	4164.0	54.2
90°-120°	754.3	9.8
90°-150°	2541.9	33.1
90°-180°	3514.0	45.8
0°-180°	7678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1762	1762	1762	1762	1762	
5°	1759	1754	1739	1752	1750	167
15°	1672	1664	1636	1635	1623	472
25°	1517	1497	1448	1430	1416	698
35°	1307	1275	1215	1176	1158	818
45°	1070	1031	958	905	885	825
55°	812	769	694	635	613	726
65°	550	504	434	380	361	544
75°	293	253	197	168	158	309
85°	73	49	43	41	40	80
90°	1	9	16	21	24	8
95°	64	66	75	82	84	67
105°	223	228	234	240	243	238
115°	422	426	428	427	426	418
125°	616	622	623	621	620	552
135°	802	807	808	808	804	618
145°	971	975	978	978	975	607
155°	1111	1111	1112	1116	1111	512
165°	1208	1206	1207	1211	1205	341
175°	1256	1252	1252	1258	1251	119
180°	1259	1259	1259	1259	1259	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1761.6	1761.6	1761.6	1761.6	1761.6
2.5°	1765.6	1761.6	1748.3	1761.6	1760.3
5°	1758.9	1753.6	1739.0	1752.3	1749.6
7.5°	1745.6	1740.3	1723.0	1733.6	1731.0
10°	1725.7	1721.7	1703.0	1707.0	1703.0
12.5°	1703.0	1697.7	1671.1	1673.8	1667.1
15°	1672.4	1664.5	1636.5	1635.2	1623.2
17.5°	1640.5	1628.5	1595.3	1588.6	1579.3
20°	1601.9	1588.6	1546.0	1539.4	1527.4
22.5°	1559.3	1546.0	1500.8	1486.2	1476.9
25°	1516.8	1496.8	1447.6	1430.3	1415.7
27.5°	1468.9	1444.9	1393.0	1370.4	1355.8
30°	1415.7	1390.4	1334.5	1303.9	1291.9
32.5°	1363.8	1333.2	1276.0	1241.4	1225.4
35°	1306.6	1274.6	1214.7	1176.2	1157.5
37.5°	1252.0	1213.4	1152.2	1107.0	1088.4
40°	1193.5	1153.5	1089.7	1039.1	1023.2
42.5°	1132.3	1091.0	1024.5	976.6	951.3
45°	1069.7	1031.1	958.0	904.7	884.8
47.5°	1004.5	964.6	891.4	836.9	814.3
50°	943.3	899.4	823.6	767.7	747.7
52.5°	876.8	831.6	761.0	699.8	679.9
55°	811.6	769.0	694.5	634.6	613.4
57.5°	745.1	699.8	628.0	569.5	550.8
60°	681.2	634.6	562.8	504.3	484.3
62.5°	613.4	569.5	496.3	443.1	423.1
65°	549.5	504.3	433.7	380.5	360.6
67.5°	485.6	440.4	372.5	322.0	306.0
70°	420.4	375.2	308.7	267.4	251.5
72.5°	356.6	312.7	251.5	214.2	204.9
75°	292.7	252.8	196.9	167.6	158.3
77.5°	227.5	195.6	149.0	126.4	118.4
80°	173.0	141.0	103.8	91.8	89.1
82.5°	119.7	91.8	69.2	65.2	63.9
85°	73.2	49.2	42.6	41.2	39.9
87.5°	30.6	21.3	20.0	20.0	18.6
90°	1.0	8.8	15.7	20.6	23.5
92.5°	29.4	34.3	43.1	50.0	51.9
95°	63.7	65.6	75.4	82.3	84.3
97.5°	98.0	99.0	112.7	118.6	119.5
100°	137.2	137.2	149.9	158.7	160.7
102.5°	179.3	184.2	189.1	198.9	201.8
105°	223.4	228.3	234.2	240.1	243.0
107.5°	271.4	276.3	281.2	284.2	284.2
110°	321.4	326.3	329.2	332.2	331.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	372.3	374.3	378.2	379.2	377.2
115°	422.3	426.2	428.2	427.2	426.2
117.5°	473.3	474.2	476.2	477.2	473.3
120°	520.3	525.2	526.2	526.2	522.3
122.5°	571.2	572.2	575.2	574.2	571.2
125°	616.3	622.2	623.2	621.2	620.2
127.5°	666.3	669.2	670.2	669.2	667.3
130°	710.4	715.3	717.2	716.3	714.3
132.5°	754.5	763.3	762.3	761.3	758.4
135°	801.5	807.4	808.4	808.4	804.5
137.5°	845.6	851.5	853.4	854.4	849.5
140°	887.7	892.6	895.6	897.5	892.6
142.5°	929.9	933.8	937.7	938.7	933.8
145°	971.0	974.9	977.9	977.9	974.9
147.5°	1009.2	1012.2	1014.1	1017.1	1009.2
150°	1047.5	1046.5	1050.4	1050.4	1048.4
152.5°	1078.8	1080.8	1081.7	1084.7	1080.8
155°	1111.1	1111.1	1112.1	1116.0	1111.1
157.5°	1140.5	1138.6	1139.6	1143.5	1136.6
160°	1166.0	1163.1	1164.1	1168.0	1163.1
162.5°	1188.5	1186.6	1186.6	1191.5	1185.6
165°	1208.1	1206.2	1207.2	1211.1	1205.2
167.5°	1225.8	1221.9	1221.9	1227.7	1221.9
170°	1239.5	1235.6	1235.6	1241.5	1234.6
172.5°	1249.3	1245.4	1245.4	1251.3	1245.4
175°	1256.2	1252.2	1252.2	1258.1	1251.3
177.5°	1261.1	1257.1	1256.2	1262.0	1255.2
180°	1259.1	1259.1	1259.1	1259.1	1259.1

(END OF REPORT)