

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: P1028531

Luminaire Tested: S125RDIP-B1090D610UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028531
REPORT IS A COMBINATION OF REPORTS P1005076 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D610UB50-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

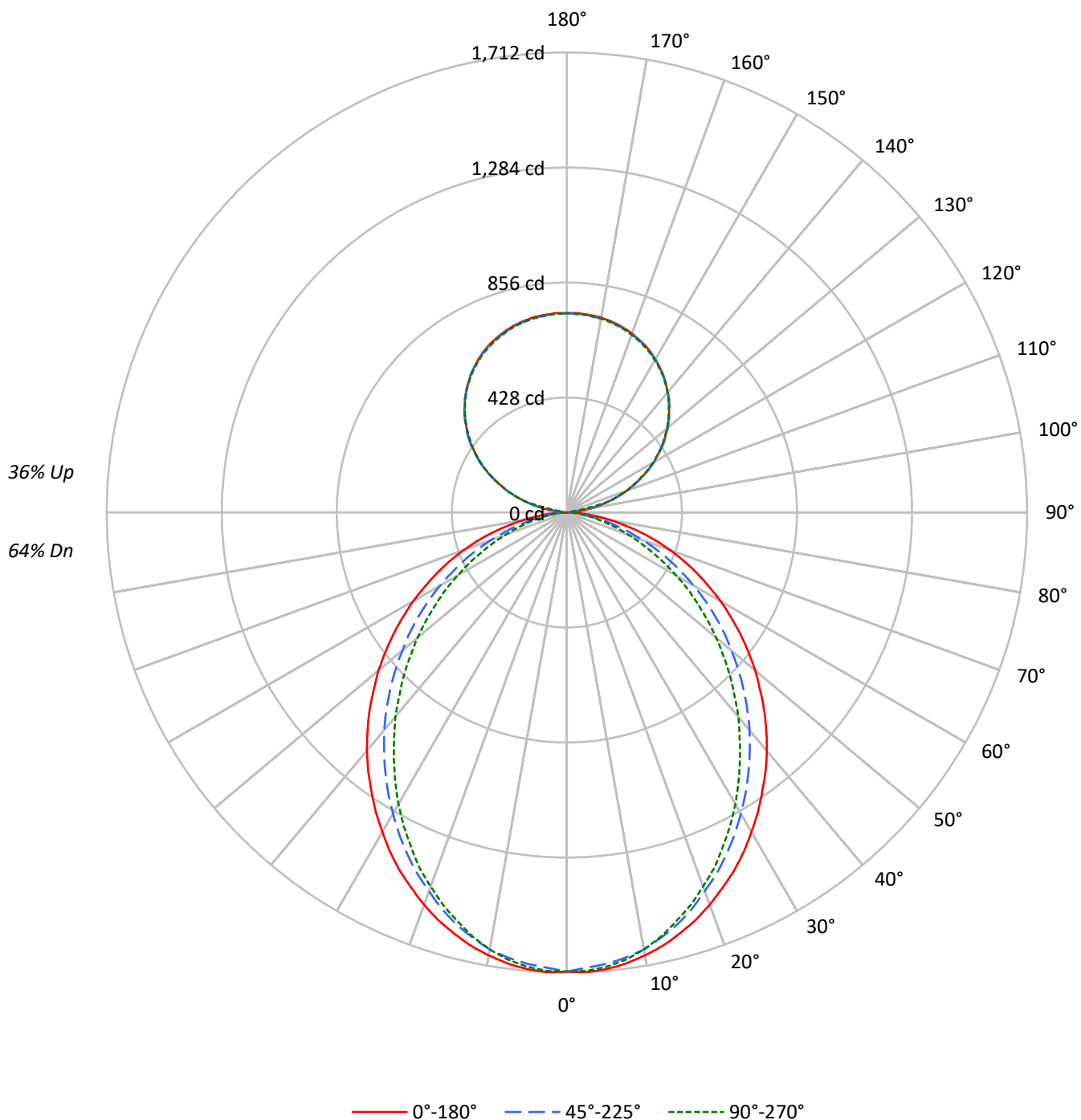
Lumens per Lamp: N/A
Luminaire Lumens: 6315.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 62.2
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	110	110	110	110	104	104	104	104	91	91	91	80	80	80	69	69	69
1	101	97	93	90	95	91	88	85	80	78	76	71	69	67	61	60	59
2	92	85	79	74	87	80	75	70	71	67	63	62	59	56	54	52	50
3	84	75	68	62	79	71	64	59	63	58	53	55	51	48	48	45	43
4	77	67	59	52	72	63	56	50	56	50	46	49	45	41	43	40	37
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	39	36	32
6	66	54	45	39	62	51	43	38	45	39	35	40	35	32	36	32	29
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26
8	57	44	36	31	53	42	35	30	38	32	28	34	29	25	30	26	23
9	53	40	33	28	50	38	31	27	35	29	25	31	26	23	28	24	21
10	49	37	30	25	46	35	29	24	32	26	22	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10945	10945	10945
5°	10946	10672	10689
10°	10839	10403	10312
15°	10686	10027	9815
20°	10496	9574	9294
25°	10279	9132	8735
30°	10012	8646	8148
35°	9739	8152	7525
40°	9481	7645	6917
45°	9170	7097	6279
50°	8855	6516	5630
55°	8488	5944	4958
60°	8114	5290	4261
65°	7668	4558	3510
70°	7147	3710	2762
75°	6426	2791	2012
80°	5419	1806	1356
85°	4059	971	764

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9170 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.5
10°-20°	449.3	7.1
20°-30°	651.5	10.3
30°-40°	742.2	11.8
40°-50°	723.5	11.5
50°-60°	608.8	9.6
60°-70°	426.7	6.8
70°-80°	218.7	3.5
80°-90°	55.6	0.9
90°-100°	25.2	0.4
100°-110°	167.3	2.7
110°-120°	301.4	4.8
120°-130°	386.9	6.1
130°-140°	416.1	6.6
140°-150°	390.5	6.2
150°-160°	315.9	5.0
160°-170°	204.3	3.2
170°-180°	70.4	1.1
0°-30°	1261.6	20.0
0°-40°	2003.8	31.7
0°-60°	3336.1	52.8
0°-90°	4037.1	63.9
90°-120°	493.9	7.8
90°-150°	1687.3	26.7
90°-180°	2278.0	36.1
0°-180°	6315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1708	1708	1708	1708	1708	
5°	1706	1700	1686	1699	1697	162
15°	1622	1614	1587	1586	1574	457
25°	1471	1452	1404	1387	1373	677
35°	1267	1236	1178	1141	1122	793
45°	1037	1000	929	877	858	800
55°	787	746	674	615	595	704
65°	533	489	421	369	350	528
75°	284	245	191	163	154	300
85°	71	48	41	40	39	78
90°	0	5	9	12	13	6
95°	31	30	9	12	12	38
105°	162	164	164	164	163	171
115°	303	306	307	304	301	301
125°	432	435	435	433	432	385
135°	538	542	540	539	536	415
145°	624	625	625	626	622	390
155°	687	684	685	687	682	317
165°	725	722	722	726	721	205
175°	742	738	739	743	738	71
180°	742	742	742	742	742	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1708.3	1708.3	1708.3	1708.3	1708.3
2.5°	1712.1	1708.3	1695.4	1708.3	1707.0
5°	1705.7	1700.5	1686.3	1699.2	1696.6
7.5°	1692.8	1687.6	1670.8	1681.2	1678.6
10°	1673.4	1669.5	1651.5	1655.4	1651.5
12.5°	1651.5	1646.3	1620.5	1623.1	1616.6
15°	1621.8	1614.1	1587.0	1585.7	1574.1
17.5°	1590.8	1579.2	1547.0	1540.5	1531.5
20°	1553.4	1540.5	1499.2	1492.8	1481.2
22.5°	1512.1	1499.2	1455.4	1441.2	1432.1
25°	1470.9	1451.5	1403.8	1387.0	1372.8
27.5°	1424.4	1401.2	1350.9	1328.9	1314.7
30°	1372.8	1348.3	1294.1	1264.4	1252.8
32.5°	1322.5	1292.8	1237.3	1203.8	1188.3
35°	1267.0	1236.0	1178.0	1140.6	1122.5
37.5°	1214.1	1176.7	1117.3	1073.5	1055.4
40°	1157.3	1118.6	1056.7	1007.7	992.2
42.5°	1098.0	1058.0	993.5	947.0	922.5
45°	1037.3	999.9	929.0	877.4	858.0
47.5°	974.1	935.4	864.4	811.6	789.6
50°	914.8	872.2	798.6	744.5	725.1
52.5°	850.3	806.4	738.0	678.7	659.3
55°	787.0	745.7	673.5	615.4	594.8
57.5°	722.5	678.7	609.0	552.2	534.2
60°	660.6	615.4	545.8	489.0	469.6
62.5°	594.8	552.2	481.3	429.6	410.3
65°	532.9	489.0	420.6	369.0	349.7
67.5°	470.9	427.1	361.3	312.2	296.8
70°	407.7	363.8	299.3	259.3	243.9
72.5°	345.8	303.2	243.9	207.7	198.7
75°	283.8	245.1	191.0	162.6	153.5
77.5°	220.6	189.7	144.5	122.6	114.8
80°	167.7	136.8	100.6	89.0	86.4
82.5°	116.1	89.0	67.1	63.2	61.9
85°	71.0	47.7	41.3	40.0	38.7
87.5°	29.7	20.6	19.4	19.4	18.1
90°	0.5	4.9	8.8	11.5	13.2
92.5°	10.4	5.5	8.8	11.5	12.1
95°	31.3	29.7	8.8	11.5	11.5
97.5°	58.8	62.1	9.9	11.0	11.5
100°	91.8	93.5	95.6	13.7	11.5
102.5°	125.3	127.5	128.6	129.7	83.6
105°	161.6	163.8	163.8	163.8	163.3
107.5°	199.0	199.0	200.1	200.6	198.4
110°	235.3	235.3	236.4	234.7	235.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	269.4	271.0	271.6	269.4	268.3
115°	303.4	306.2	306.7	304.5	301.2
117.5°	339.2	339.2	341.4	338.1	337.0
120°	372.2	371.6	373.3	372.2	369.4
122.5°	401.3	404.0	404.6	403.5	400.2
125°	431.5	435.4	435.4	433.2	431.5
127.5°	460.7	463.4	462.9	461.8	457.4
130°	487.0	489.8	490.3	488.7	485.9
132.5°	513.4	516.7	515.1	515.1	512.3
135°	538.2	541.5	540.4	539.3	536.0
137.5°	561.3	564.5	563.4	563.4	560.7
140°	583.8	584.9	584.3	585.4	582.1
142.5°	604.1	604.7	605.8	605.8	602.5
145°	623.9	625.0	625.0	625.6	622.3
147.5°	641.5	641.5	642.1	642.6	638.8
150°	658.0	656.9	658.0	659.1	654.7
152.5°	673.9	671.2	672.3	673.4	669.5
155°	687.1	683.8	684.9	686.6	682.2
157.5°	697.6	695.9	695.9	697.6	693.2
160°	708.6	705.3	705.8	708.0	703.6
162.5°	717.4	714.1	714.6	717.9	713.0
165°	725.1	721.8	722.3	725.6	721.2
167.5°	731.1	727.8	728.4	732.2	727.3
170°	736.1	732.2	732.8	737.2	732.2
172.5°	739.4	735.5	736.6	740.5	735.5
175°	741.6	738.3	738.8	743.2	738.3
177.5°	743.2	739.9	740.5	744.3	739.9
180°	741.6	741.6	741.6	741.6	741.6

(END OF REPORT)