

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: P1028533

Luminaire Tested: S125RDIP-B1090D610UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028533
REPORT IS A COMBINATION OF REPORTS P1005078 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-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

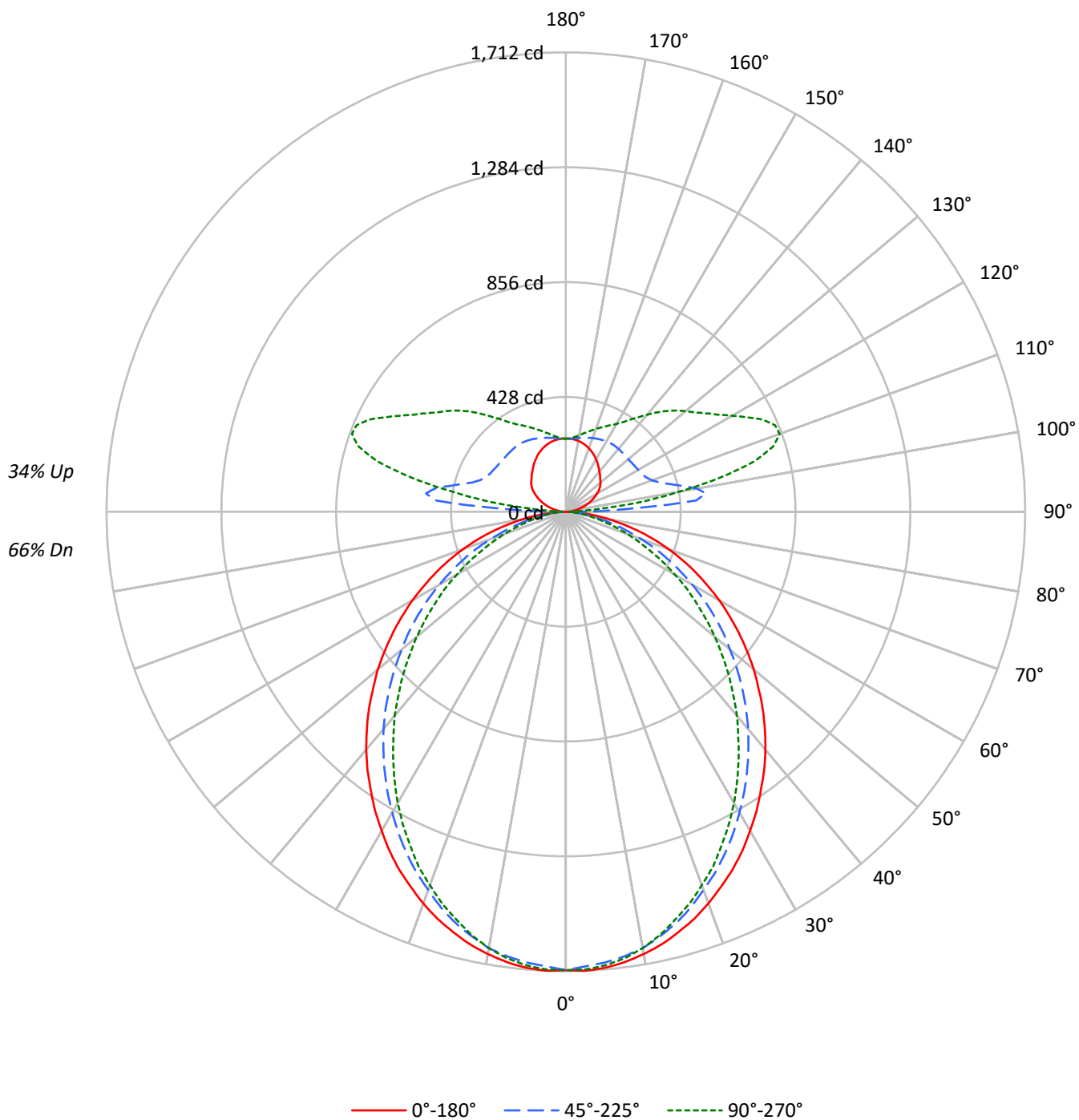
Lumens per Lamp: N/A
Luminaire Lumens: 6089.2 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	111	111	111	111	105	105	105	105	92	92	92	81	81	81	71	71	71
1	102	97	94	90	96	92	89	85	82	79	77	72	70	68	63	62	61
2	93	85	79	74	87	81	75	71	72	68	64	64	60	58	56	54	52
3	85	75	68	62	80	71	65	59	64	58	54	57	52	49	50	47	44
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38
5	72	60	52	46	67	57	49	44	51	45	40	46	41	37	40	37	34
6	66	54	46	40	62	51	44	38	46	40	35	41	36	32	37	33	30
7	61	49	41	35	58	46	39	34	42	36	31	38	33	29	34	30	26
8	57	44	37	31	54	42	35	30	38	32	28	35	30	26	31	27	24
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22
10	50	38	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20

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	2.6
10°-20°	449.3	7.4
20°-30°	651.5	10.7
30°-40°	742.2	12.2
40°-50°	723.5	11.9
50°-60°	608.8	10.0
60°-70°	426.7	7.0
70°-80°	218.7	3.6
80°-90°	55.6	0.9
90°-100°	205.3	3.4
100°-110°	426.5	7.0
110°-120°	398.3	6.5
120°-130°	322.3	5.3
130°-140°	259.0	4.3
140°-150°	195.5	3.2
150°-160°	137.6	2.3
160°-170°	81.1	1.3
170°-180°	26.4	0.4
0°-30°	1261.6	20.7
0°-40°	2003.8	32.9
0°-60°	3336.1	54.8
0°-90°	4037.1	66.3
90°-120°	1030.2	16.9
90°-150°	1807.0	29.7
90°-180°	2052.0	33.7
0°-180°	6089.2	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	5
95°	18	54	487	221	129	19
105°	62	87	398	785	728	65
115°	111	134	320	690	811	109
125°	154	180	307	549	639	137
135°	180	217	304	460	531	140
145°	210	240	306	381	419	132
155°	240	258	298	337	351	110
165°	262	269	286	303	308	74
175°	272	272	274	278	276	26
180°	273	273	273	273	273	

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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	5.0	8.8	11.6	12.6
92.5°	8.2	45.1	219.3	58.6	40.7
95°	18.1	53.6	487.0	221.0	129.2
97.5°	28.0	58.0	526.1	399.1	283.1
100°	38.5	66.6	496.4	564.0	428.8
102.5°	50.0	76.2	444.2	703.7	591.5
105°	62.1	86.9	398.5	784.7	728.4
107.5°	73.7	98.2	364.5	807.5	810.8
110°	86.3	110.0	341.9	785.8	848.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	98.9	121.8	328.7	740.4	843.8
115°	111.0	133.8	319.9	689.7	811.4
117.5°	122.0	146.2	315.0	643.4	762.4
120°	133.0	158.0	311.7	604.7	715.2
122.5°	144.6	169.6	308.9	573.6	673.4
125°	153.9	180.4	306.7	548.6	639.3
127.5°	161.6	190.8	305.6	527.2	608.0
130°	168.8	200.6	304.5	505.4	583.2
132.5°	174.3	209.4	304.5	482.1	558.5
135°	180.3	216.8	304.5	459.8	531.0
137.5°	188.0	223.7	305.1	436.4	502.4
140°	194.6	229.5	305.6	415.0	472.2
142.5°	202.3	235.0	306.2	396.6	444.2
145°	210.0	240.5	305.6	380.7	418.9
147.5°	218.2	245.4	304.5	367.0	396.3
150°	225.4	249.8	302.9	355.6	378.2
152.5°	233.1	254.2	300.7	346.0	363.9
155°	239.7	257.8	297.9	336.7	351.3
157.5°	245.7	261.4	295.2	327.9	339.7
160°	251.8	264.2	292.4	319.1	328.2
162.5°	256.7	266.9	289.1	311.2	317.7
165°	261.7	268.8	285.8	303.2	307.8
167.5°	265.0	269.9	282.6	295.7	298.5
170°	268.3	271.3	279.8	288.6	290.2
172.5°	270.5	271.8	276.5	282.8	282.6
175°	272.1	272.1	274.3	277.6	276.5
177.5°	273.2	272.1	272.7	274.3	272.7
180°	272.7	272.7	272.7	272.7	272.7

(END OF REPORT)