

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: P1028509

Luminaire Tested: S125RDIP-B1090D610UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028509
REPORT IS A COMBINATION OF REPORTS P1005044 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D610UB27-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

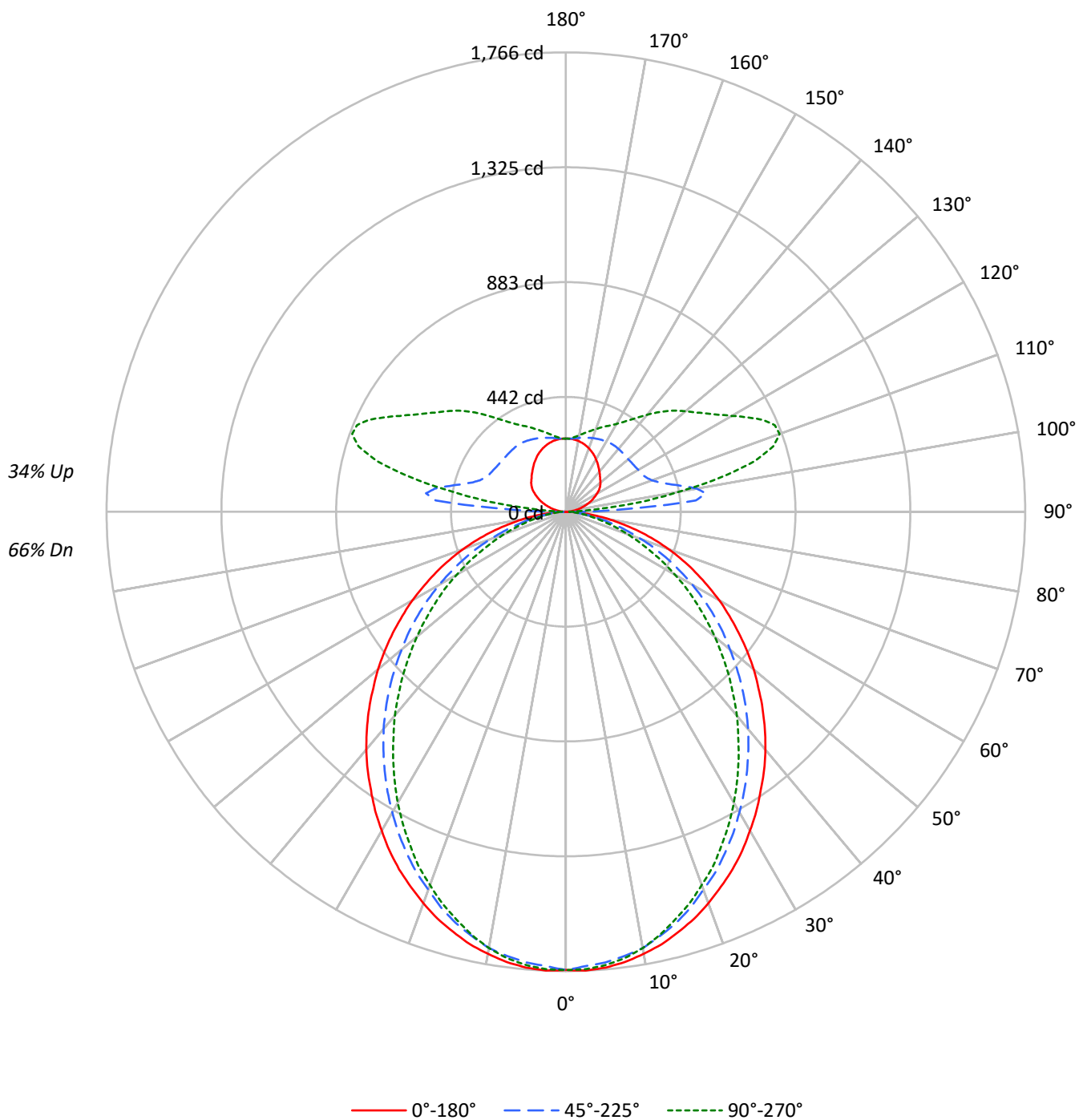
Lumens per Lamp: N/A
Luminaire Lumens: 6278.3 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	41	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°	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	2.6
10°-20°	463.3	7.4
20°-30°	671.8	10.7
30°-40°	765.4	12.2
40°-50°	746.0	11.9
50°-60°	627.8	10.0
60°-70°	440.0	7.0
70°-80°	225.6	3.6
80°-90°	57.4	0.9
90°-100°	211.6	3.4
100°-110°	439.6	7.0
110°-120°	410.6	6.5
120°-130°	332.2	5.3
130°-140°	267.0	4.3
140°-150°	201.5	3.2
150°-160°	141.9	2.3
160°-170°	83.6	1.3
170°-180°	27.2	0.4
0°-30°	1300.9	20.7
0°-40°	2066.3	32.9
0°-60°	3440.2	54.8
0°-90°	4163.1	66.3
90°-120°	1061.9	16.9
90°-150°	1862.5	29.7
90°-180°	2115.0	33.7
0°-180°	6278.3	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	5	9	12	13	6
95°	19	55	502	228	133	19
105°	64	90	411	809	751	67
115°	114	138	330	711	836	113
125°	159	186	316	566	659	141
135°	186	224	314	474	547	144
145°	216	248	315	392	432	136
155°	247	266	307	347	362	114
165°	270	277	295	312	317	76
175°	280	280	283	286	285	27
180°	281	281	281	281	281	

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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°	0.6	5.1	9.1	11.9	13.0
92.5°	8.5	46.5	226.1	60.4	41.9
95°	18.7	55.2	502.0	227.8	133.2
97.5°	28.9	59.8	542.2	411.4	291.8
100°	39.7	68.6	511.7	581.3	442.0
102.5°	51.6	78.5	457.8	725.2	609.7
105°	64.0	89.6	410.8	808.8	750.8
107.5°	75.9	101.2	375.7	832.4	835.8
110°	89.0	113.4	352.4	810.0	874.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	102.0	125.5	338.8	763.2	869.7
115°	114.5	138.0	329.8	710.8	836.3
117.5°	125.8	150.7	324.7	663.2	785.9
120°	137.1	162.9	321.3	623.2	737.2
122.5°	149.0	174.8	318.4	591.2	694.1
125°	158.7	185.8	316.2	565.5	659.0
127.5°	166.6	196.6	315.0	543.4	626.7
130°	173.9	206.8	313.9	521.0	601.2
132.5°	179.6	215.8	313.9	497.0	575.7
135°	185.8	223.6	313.9	474.0	547.3
137.5°	193.8	230.6	314.5	449.9	517.9
140°	200.6	236.6	315.0	427.8	486.7
142.5°	208.5	242.2	315.6	408.8	457.8
145°	216.4	247.9	315.0	392.4	431.8
147.5°	224.9	253.0	313.9	378.2	408.5
150°	232.3	257.5	312.2	366.6	389.8
152.5°	240.2	262.0	309.9	356.7	375.1
155°	247.0	265.8	307.1	347.0	362.1
157.5°	253.3	269.4	304.3	338.0	350.2
160°	259.5	272.2	301.4	328.9	338.3
162.5°	264.6	275.1	298.0	320.7	327.5
165°	269.7	277.1	294.6	312.5	317.3
167.5°	273.1	278.2	291.2	304.8	307.7
170°	276.5	279.6	288.4	297.4	299.2
172.5°	278.8	280.2	285.0	291.5	291.2
175°	280.5	280.5	282.7	286.1	285.0
177.5°	281.6	280.5	281.0	282.7	281.0
180°	281.0	281.0	281.0	281.0	281.0

(END OF REPORT)