

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: P1028520

Luminaire Tested: S125RDIP-B1090D610UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028520
REPORT IS A COMBINATION OF REPORTS P1005065 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D610UB35-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

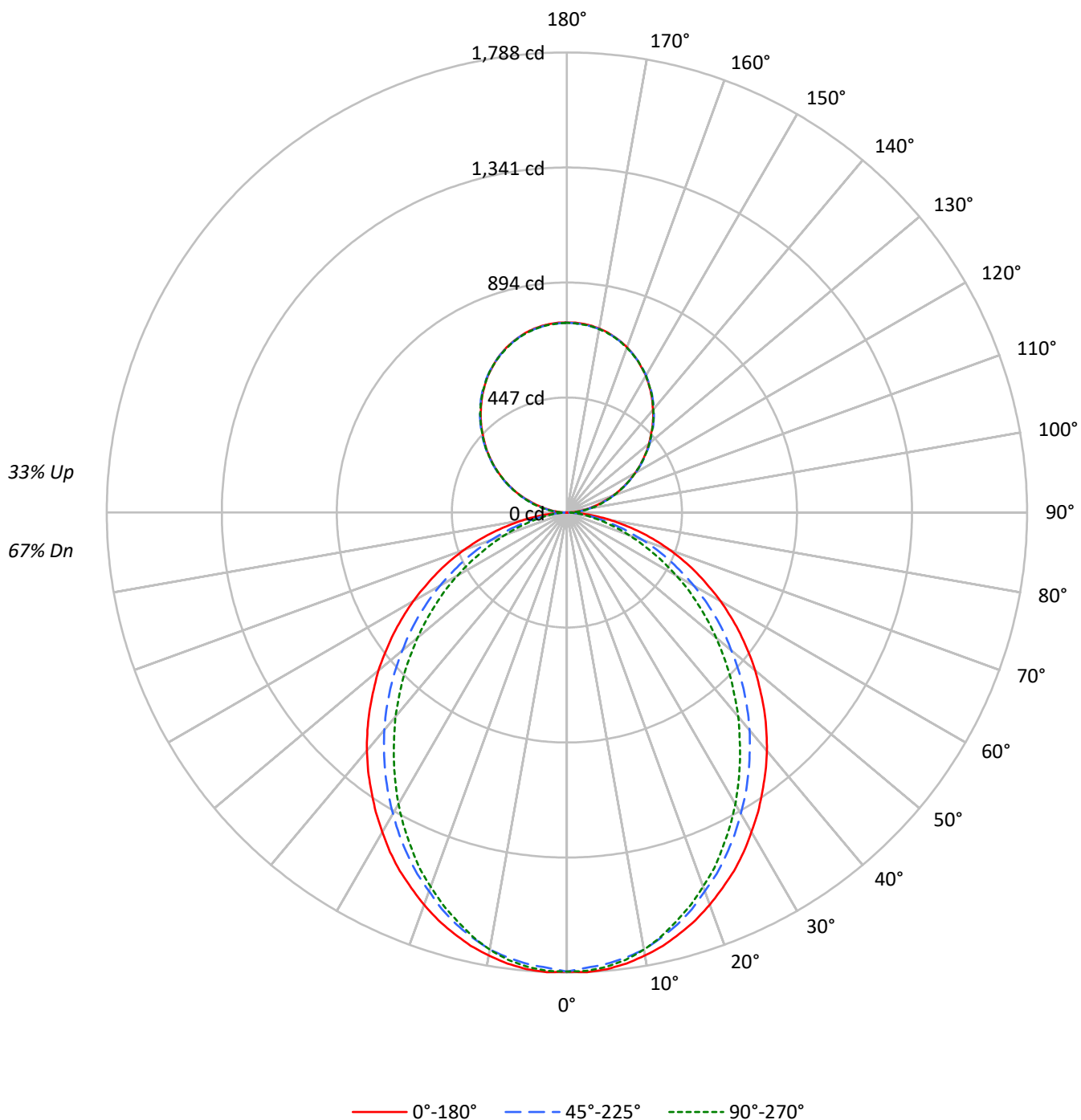
Lumens per Lamp: N/A
Luminaire Lumens: 6276.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	93	93	93	82	82	82	72	72	72
1	102	98	94	90	96	92	89	86	82	79	77	73	71	69	64	63	61
2	93	86	79	74	88	81	76	71	72	68	64	64	61	58	57	54	52
3	85	76	68	62	80	72	65	60	64	59	54	57	53	49	51	47	45
4	78	67	59	53	73	64	56	51	57	51	47	51	46	43	45	42	39
5	72	60	52	46	67	57	50	44	51	45	41	46	41	37	41	37	34
6	66	54	46	40	62	51	44	38	46	40	36	42	37	33	37	33	30
7	61	49	41	35	58	47	39	34	42	36	32	38	33	29	34	30	27
8	57	45	37	31	54	43	35	30	39	33	28	35	30	26	31	27	24
9	53	41	33	28	50	39	32	27	36	30	25	32	27	24	29	25	22
10	50	38	30	25	47	36	29	25	33	27	23	30	25	21	27	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11433	11433	11433
5°	11434	11148	11166
10°	11323	10867	10771
15°	11162	10474	10253
20°	10964	10001	9708
25°	10737	9539	9125
30°	10458	9031	8512
35°	10174	8515	7861
40°	9903	7985	7225
45°	9579	7414	6560
50°	9250	6807	5881
55°	8867	6209	5179
60°	8476	5525	4451
65°	8009	4762	3665
70°	7466	3876	2884
75°	6714	2915	2102
80°	5662	1887	1418
85°	4237	1013	798

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9579 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	2.7
10°-20°	469.3	7.5
20°-30°	680.5	10.8
30°-40°	775.3	12.4
40°-50°	755.7	12.0
50°-60°	636.0	10.1
60°-70°	445.7	7.1
70°-80°	228.5	3.6
80°-90°	58.1	0.9
90°-100°	49.1	0.8
100°-110°	145.7	2.3
110°-120°	247.2	3.9
120°-130°	325.4	5.2
130°-140°	364.6	5.8
140°-150°	357.4	5.7
150°-160°	300.2	4.8
160°-170°	199.5	3.2
170°-180°	69.8	1.1
0°-30°	1317.8	21.0
0°-40°	2093.2	33.4
0°-60°	3484.9	55.5
0°-90°	4217.2	67.2
90°-120°	442.0	7.0
90°-150°	1489.3	23.7
90°-180°	2059.0	32.8
0°-180°	6276.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1784	1784	1784	1784	1784	
5°	1782	1776	1762	1775	1772	169
15°	1694	1686	1658	1656	1644	478
25°	1536	1516	1466	1449	1434	707
35°	1324	1291	1230	1191	1173	829
45°	1084	1044	970	916	896	836
55°	822	779	704	643	621	735
65°	557	511	439	386	365	551
75°	296	256	200	170	160	313
85°	74	50	43	42	40	81
90°	1	5	9	12	14	7
95°	37	38	44	48	49	39
105°	131	134	137	141	142	140
115°	247	250	251	250	250	245
125°	361	364	365	364	363	324
135°	470	473	474	474	471	362
145°	569	571	573	573	571	356
155°	651	651	652	654	651	300
165°	708	707	707	710	706	200
175°	736	734	734	737	733	70
180°	738	738	738	738	738	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1784.4	1784.4	1784.4	1784.4	1784.4
2.5°	1788.5	1784.4	1771.0	1784.4	1783.1
5°	1781.7	1776.4	1761.5	1775.0	1772.3
7.5°	1768.3	1762.9	1745.4	1756.1	1753.4
10°	1748.1	1744.0	1725.1	1729.2	1725.1
12.5°	1725.1	1719.7	1692.8	1695.5	1688.8
15°	1694.1	1686.1	1657.8	1656.4	1644.3
17.5°	1661.8	1649.7	1616.0	1609.2	1599.8
20°	1622.7	1609.2	1566.1	1559.4	1547.2
22.5°	1579.6	1566.1	1520.3	1505.5	1496.0
25°	1536.5	1516.2	1466.4	1448.8	1434.0
27.5°	1487.9	1463.7	1411.1	1388.2	1373.4
30°	1434.0	1408.4	1351.8	1320.8	1308.7
32.5°	1381.5	1350.5	1292.5	1257.5	1241.3
35°	1323.5	1291.2	1230.5	1191.4	1172.6
37.5°	1268.2	1229.2	1167.2	1121.3	1102.5
40°	1208.9	1168.5	1103.8	1052.6	1036.4
42.5°	1146.9	1105.2	1037.8	989.3	963.7
45°	1083.6	1044.5	970.4	916.5	896.3
47.5°	1017.6	977.1	903.0	847.7	824.8
50°	955.6	911.1	834.3	777.7	757.4
52.5°	888.2	842.4	770.9	708.9	688.7
55°	822.1	779.0	703.5	642.9	621.3
57.5°	754.7	708.9	636.1	576.8	558.0
60°	690.1	642.9	570.1	510.8	490.6
62.5°	621.3	576.8	502.7	448.8	428.6
65°	556.6	510.8	439.4	385.5	365.2
67.5°	491.9	446.1	377.4	326.2	310.0
70°	425.9	380.1	312.7	270.9	254.7
72.5°	361.2	316.7	254.7	217.0	207.6
75°	296.5	256.1	199.5	169.8	160.4
77.5°	230.5	198.1	150.9	128.0	120.0
80°	175.2	142.9	105.1	93.0	90.3
82.5°	121.3	93.0	70.1	66.0	64.7
85°	74.1	49.9	43.1	41.8	40.4
87.5°	31.0	21.6	20.2	20.2	18.9
90°	0.6	5.2	9.2	12.1	13.8
92.5°	17.2	20.1	25.3	29.3	30.4
95°	37.3	38.5	44.2	48.2	49.4
97.5°	57.4	58.0	66.0	69.5	70.0
100°	80.4	80.4	87.8	93.0	94.1
102.5°	105.1	107.9	110.8	116.5	118.3
105°	130.9	133.8	137.2	140.7	142.4
107.5°	159.0	161.9	164.8	166.5	166.5
110°	188.3	191.2	192.9	194.6	194.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	218.2	219.3	221.6	222.2	221.0
115°	247.4	249.7	250.9	250.3	249.7
117.5°	277.3	277.9	279.0	279.6	277.3
120°	304.8	307.7	308.3	308.3	306.0
122.5°	334.7	335.3	337.0	336.4	334.7
125°	361.1	364.5	365.1	364.0	363.4
127.5°	390.4	392.1	392.7	392.1	391.0
130°	416.2	419.1	420.2	419.7	418.5
132.5°	442.0	447.2	446.6	446.1	444.3
135°	469.6	473.0	473.6	473.6	471.3
137.5°	495.4	498.9	500.0	500.6	497.7
140°	520.1	523.0	524.7	525.9	523.0
142.5°	544.8	547.1	549.4	550.0	547.1
145°	568.9	571.2	572.9	572.9	571.2
147.5°	591.3	593.0	594.2	595.9	591.3
150°	613.7	613.1	615.4	615.4	614.3
152.5°	632.1	633.2	633.8	635.5	633.2
155°	651.0	651.0	651.6	653.9	651.0
157.5°	668.2	667.1	667.7	670.0	665.9
160°	683.2	681.4	682.0	684.3	681.4
162.5°	696.4	695.2	695.2	698.1	694.6
165°	707.8	706.7	707.3	709.6	706.1
167.5°	718.2	715.9	715.9	719.3	715.9
170°	726.2	723.9	723.9	727.4	723.3
172.5°	732.0	729.7	729.7	733.1	729.7
175°	736.0	733.7	733.7	737.1	733.1
177.5°	738.8	736.5	736.0	739.4	735.4
180°	737.7	737.7	737.7	737.7	737.7

(END OF REPORT)