

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: P1028491

Luminaire Tested: S125RDIP-B1090D375UB35-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028491
REPORT IS A COMBINATION OF REPORTS P1005026 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D375UB35-4F0-XX-W2A-F4
Description: Define 5 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

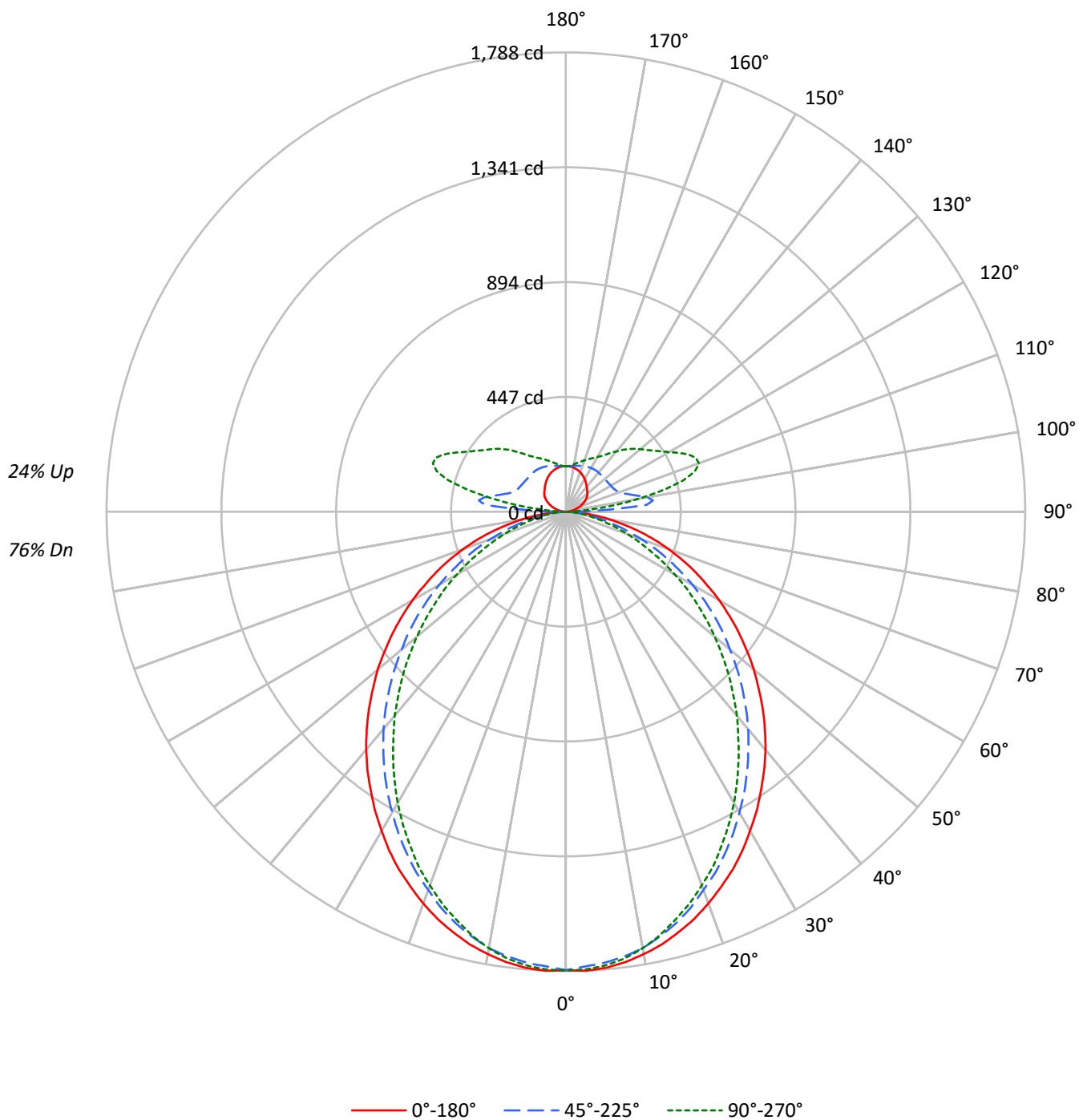
Lumens per Lamp: N/A
Luminaire Lumens: 5549.7 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 56.1
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

TEST NUMBER: P1028491

CATALOG NUMBER: S125RDIP-B1090D375UB35-4F0-XX-W2A-F4

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	113	113	113	113	108	108	108	108	98	98	98	88	88	88	80	80	80
1	104	100	96	92	99	95	92	88	86	84	81	79	77	75	71	70	68
2	95	87	81	76	90	84	78	73	76	72	68	69	66	63	63	60	58
3	87	77	70	64	82	74	67	62	67	62	57	62	57	54	56	53	50
4	80	69	60	54	76	66	58	53	60	54	49	55	50	46	50	46	43
5	73	61	53	47	70	59	51	46	54	48	43	50	44	40	46	41	38
6	68	55	47	41	64	53	46	40	49	43	38	45	40	36	42	37	33
7	63	50	42	36	60	48	41	35	45	38	33	41	36	32	38	33	30
8	59	46	38	32	56	44	37	32	41	35	30	38	32	28	35	30	27
9	55	42	34	29	52	41	33	28	38	31	27	35	30	26	32	28	24
10	51	39	31	26	49	37	30	26	35	29	25	32	27	23	30	26	22

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

TEST NUMBER: P1028491

CATALOG NUMBER: S125RDIP-B1090D375UB35-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	167.9	3.0
10°-20°	469.3	8.5
20°-30°	680.5	12.3
30°-40°	775.3	14.0
40°-50°	755.7	13.6
50°-60°	636.0	11.5
60°-70°	445.7	8.0
70°-80°	228.5	4.1
80°-90°	57.7	1.0
90°-100°	133.4	2.4
100°-110°	277.0	5.0
110°-120°	258.8	4.7
120°-130°	209.4	3.8
130°-140°	168.2	3.0
140°-150°	127.0	2.3
150°-160°	89.4	1.6
160°-170°	52.7	0.9
170°-180°	17.1	0.3
0°-30°	1317.8	23.7
0°-40°	2093.2	37.7
0°-60°	3484.9	62.8
0°-90°	4216.7	76.0
90°-120°	669.2	12.1
90°-150°	1173.8	21.2
90°-180°	1333.0	24.0
0°-180°	5549.7	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°	0	3	6	8	8	5
95°	12	35	316	144	84	12
105°	40	56	259	510	473	43
115°	72	87	208	448	527	71
125°	100	117	199	356	415	89
135°	117	141	198	299	345	91
145°	136	156	198	247	272	86
155°	156	168	194	219	228	72
165°	170	175	186	197	200	48
175°	177	177	178	180	180	17
180°	177	177	177	177	177	

TEST NUMBER: P1028491

CATALOG NUMBER: S125RDIP-B1090D375UB35-4F0-XX-W2A-F4

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°	0.4	3.2	5.7	7.5	8.2
92.5°	5.4	29.3	142.5	38.0	26.4
95°	11.8	34.8	316.4	143.6	83.9
97.5°	18.2	37.7	341.7	259.2	183.9
100°	25.0	43.2	322.4	366.4	278.5
102.5°	32.5	49.4	288.5	457.0	384.2
105°	40.4	56.4	258.9	509.8	473.1
107.5°	47.8	63.8	236.7	524.6	526.7
110°	56.1	71.4	222.1	510.4	551.0

TEST NUMBER: P1028491

CATALOG NUMBER: S125RDIP-B1090D375UB35-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.3	79.1	213.5	481.0	548.1
115°	72.1	87.0	207.8	448.0	527.1
117.5°	79.3	95.0	204.6	418.0	495.3
120°	86.4	102.6	202.5	392.8	464.6
122.5°	93.9	110.2	200.7	372.6	437.4
125°	100.0	117.2	199.3	356.4	415.3
127.5°	105.0	124.0	198.5	342.5	394.9
130°	109.6	130.4	197.8	328.3	378.9
132.5°	113.2	136.0	197.8	313.2	362.8
135°	117.1	140.8	197.8	298.7	344.9
137.5°	122.1	145.3	198.2	283.6	326.4
140°	126.4	149.1	198.5	269.6	306.7
142.5°	131.4	152.6	198.9	257.6	288.5
145°	136.4	156.2	198.5	247.3	272.1
147.5°	141.8	159.4	197.8	238.4	257.5
150°	146.4	162.3	196.8	231.0	245.7
152.5°	151.4	165.2	195.3	224.8	236.4
155°	155.7	167.5	193.5	218.7	228.2
157.5°	159.6	169.8	191.8	213.0	220.7
160°	163.5	171.6	190.0	207.2	213.2
162.5°	166.8	173.4	187.8	202.1	206.4
165°	170.0	174.6	185.7	196.9	200.0
167.5°	172.1	175.3	183.5	192.1	193.9
170°	174.3	176.2	181.8	187.4	188.5
172.5°	175.7	176.6	179.6	183.7	183.5
175°	176.8	176.8	178.2	180.3	179.6
177.5°	177.5	176.8	177.1	178.2	177.1
180°	177.1	177.1	177.1	177.1	177.1

(END OF REPORT)