

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: P1028478

Luminaire Tested: S125RDIP-B1090D375UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028478
REPORT IS A COMBINATION OF REPORTS P1005003 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D375UB27-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

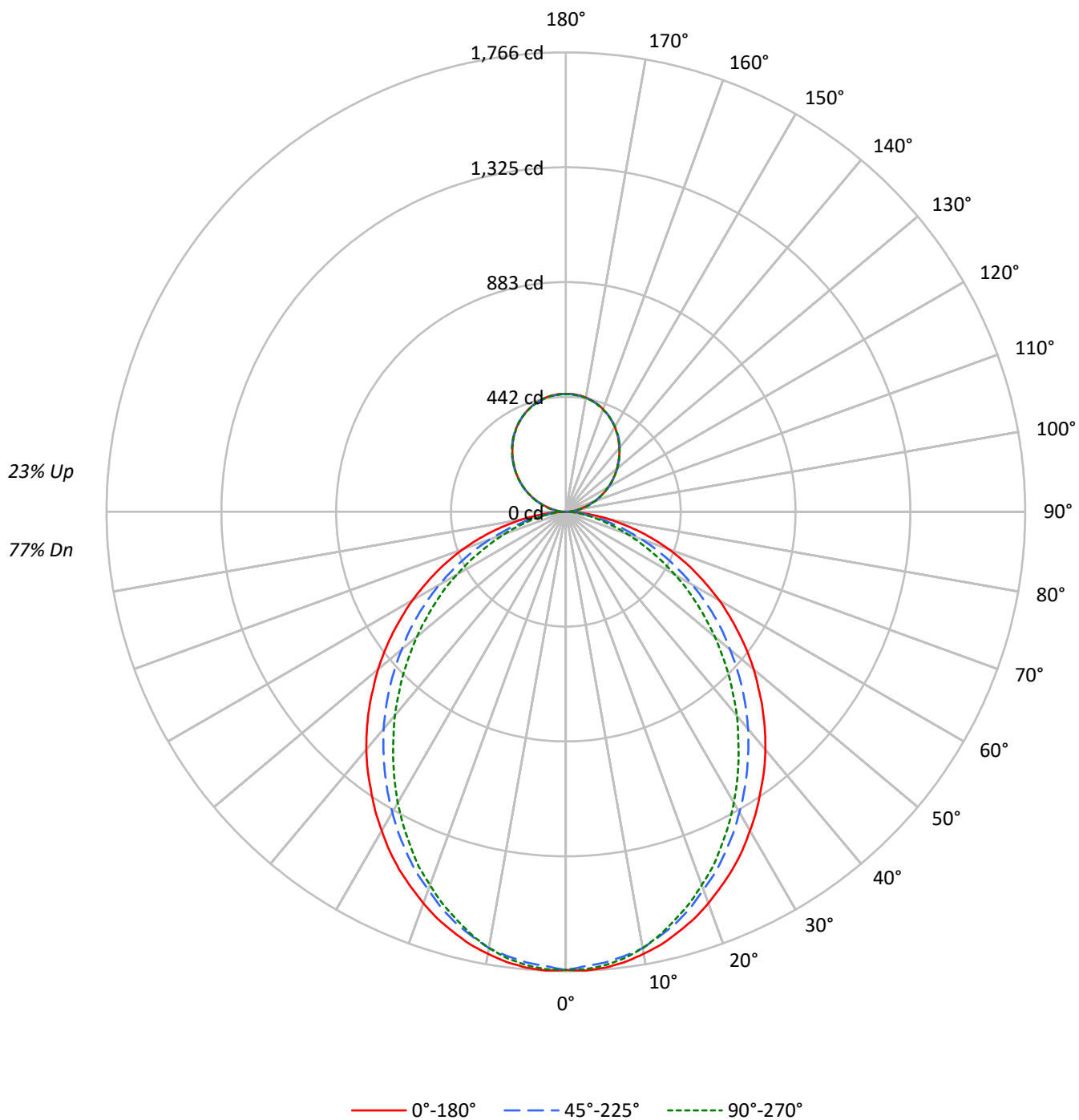
Lumens per Lamp: N/A
Luminaire Lumens: 5427.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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: P1028478

CATALOG NUMBER: S125RDIP-B1090D375UB27-4F0-XX-W2A-F1

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	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81
1	104	100	96	92	99	95	92	89	87	84	82	79	77	75	72	70	69
2	95	88	81	76	90	84	78	73	76	72	68	70	66	63	64	61	59
3	87	77	70	64	83	74	67	62	68	62	58	62	58	54	57	53	50
4	80	69	61	54	76	66	58	53	61	54	50	56	51	46	51	47	43
5	74	62	53	47	70	59	51	46	54	48	43	50	45	41	46	42	38
6	68	55	47	41	65	53	46	40	49	43	38	45	40	36	42	37	34
7	63	50	42	36	60	48	41	35	45	38	34	41	36	32	38	34	30
8	59	46	38	32	56	44	37	32	41	35	30	38	33	29	35	31	27
9	55	42	34	29	52	41	33	29	38	32	27	35	30	26	33	28	25
10	51	39	31	26	49	38	31	26	35	29	25	33	27	24	30	26	22

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

TEST NUMBER: P1028478

CATALOG NUMBER: S125RDIP-B1090D375UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.1
10°-20°	463.3	8.5
20°-30°	671.8	12.4
30°-40°	765.4	14.1
40°-50°	746.0	13.7
50°-60°	627.8	11.6
60°-70°	440.0	8.1
70°-80°	225.6	4.2
80°-90°	57.0	1.0
90°-100°	30.1	0.6
100°-110°	89.5	1.6
110°-120°	151.8	2.8
120°-130°	199.8	3.7
130°-140°	223.9	4.1
140°-150°	219.5	4.0
150°-160°	184.3	3.4
160°-170°	122.5	2.3
170°-180°	42.9	0.8
0°-30°	1300.9	24.0
0°-40°	2066.3	38.1
0°-60°	3440.2	63.4
0°-90°	4162.7	76.7
90°-120°	271.4	5.0
90°-150°	914.6	16.9
90°-180°	1264.0	23.3
0°-180°	5427.0	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°	0	3	6	7	8	6
95°	23	24	27	30	30	24
105°	80	82	84	86	87	86
115°	152	153	154	154	153	150
125°	222	224	224	224	223	199
135°	288	290	291	291	289	222
145°	349	351	352	352	351	218
155°	400	400	400	402	400	184
165°	435	434	434	436	434	123
175°	452	450	450	453	450	43
180°	453	453	453	453	453	

TEST NUMBER: P1028478

CATALOG NUMBER: S125RDIP-B1090D375UB27-4F0-XX-W2A-F1

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°	0.4	3.2	5.6	7.4	8.5
92.5°	10.6	12.3	15.5	18.0	18.7
95°	22.9	23.6	27.1	29.6	30.3
97.5°	35.3	35.6	40.5	42.7	43.0
100°	49.4	49.4	53.9	57.1	57.8
102.5°	64.5	66.3	68.0	71.6	72.6
105°	80.4	82.1	84.3	86.4	87.4
107.5°	97.7	99.4	101.2	102.2	102.2
110°	115.6	117.4	118.5	119.5	119.2



TEST NUMBER: P1028478

CATALOG NUMBER: S125RDIP-B1090D375UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	134.0	134.7	136.1	136.4	135.7
115°	151.9	153.4	154.1	153.7	153.4
117.5°	170.3	170.6	171.3	171.7	170.3
120°	187.2	189.0	189.3	189.3	187.9
122.5°	205.5	205.9	206.9	206.6	205.5
125°	221.7	223.9	224.2	223.5	223.2
127.5°	239.7	240.8	241.1	240.8	240.1
130°	255.6	257.3	258.1	257.7	257.0
132.5°	271.4	274.6	274.3	273.9	272.9
135°	288.4	290.5	290.8	290.8	289.4
137.5°	304.2	306.3	307.1	307.4	305.6
140°	319.4	321.2	322.2	322.9	321.2
142.5°	334.6	336.0	337.4	337.7	336.0
145°	349.4	350.8	351.8	351.8	350.8
147.5°	363.1	364.2	364.9	365.9	363.1
150°	376.9	376.5	377.9	377.9	377.2
152.5°	388.1	388.8	389.2	390.3	388.8
155°	399.8	399.8	400.1	401.5	399.8
157.5°	410.3	409.6	410.0	411.4	408.9
160°	419.5	418.5	418.8	420.2	418.5
162.5°	427.6	426.9	426.9	428.7	426.6
165°	434.7	434.0	434.3	435.7	433.6
167.5°	441.0	439.6	439.6	441.7	439.6
170°	446.0	444.5	444.5	446.7	444.2
172.5°	449.5	448.1	448.1	450.2	448.1
175°	451.9	450.5	450.5	452.7	450.2
177.5°	453.7	452.3	451.9	454.1	451.6
180°	453.0	453.0	453.0	453.0	453.0

(END OF REPORT)