

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: P1028503

Luminaire Tested: S125RDIP-B1090D375UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028503
REPORT IS A COMBINATION OF REPORTS P1005038 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D375UB50-4F0-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

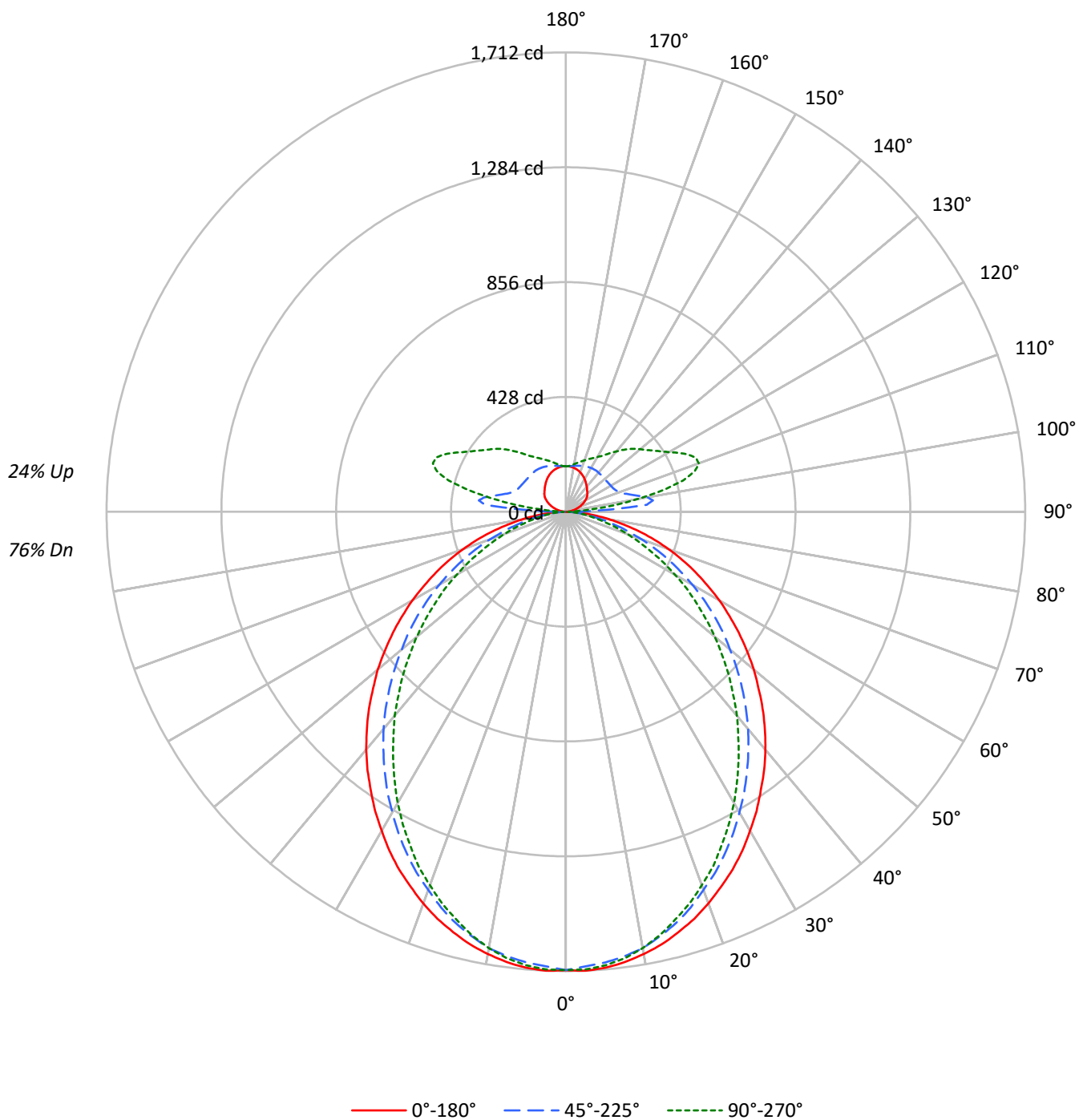
Lumens per Lamp: N/A
Luminaire Lumens: 5312.6 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

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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	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°	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	3.0
10°-20°	449.3	8.5
20°-30°	651.5	12.3
30°-40°	742.2	14.0
40°-50°	723.5	13.6
50°-60°	608.8	11.5
60°-70°	426.7	8.0
70°-80°	218.7	4.1
80°-90°	55.2	1.0
90°-100°	127.6	2.4
100°-110°	265.2	5.0
110°-120°	247.7	4.7
120°-130°	200.4	3.8
130°-140°	161.0	3.0
140°-150°	121.6	2.3
150°-160°	85.6	1.6
160°-170°	50.4	0.9
170°-180°	16.4	0.3
0°-30°	1261.6	23.7
0°-40°	2003.8	37.7
0°-60°	3336.1	62.8
0°-90°	4036.7	76.0
90°-120°	640.5	12.1
90°-150°	1123.5	21.1
90°-180°	1276.0	24.0
0°-180°	5312.6	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	3	6	7	8	5
95°	11	33	303	137	80	12
105°	39	54	248	488	453	41
115°	69	83	199	429	504	68
125°	96	112	191	341	398	85
135°	112	135	189	286	330	87
145°	131	150	190	237	260	82
155°	149	160	185	209	218	69
165°	163	167	178	188	191	46
175°	169	169	171	173	172	16
180°	170	170	170	170	170	

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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°	0.3	3.0	5.5	7.2	7.9
92.5°	5.1	28.0	136.4	36.4	25.3
95°	11.3	33.3	302.8	137.4	80.3
97.5°	17.4	36.0	327.1	248.1	176.0
100°	23.9	41.4	308.6	350.7	266.6
102.5°	31.1	47.3	276.2	437.5	367.8
105°	38.6	54.0	247.8	487.9	452.9
107.5°	45.8	61.0	226.6	502.1	504.1
110°	53.7	68.4	212.6	488.6	527.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	61.5	75.7	204.4	460.4	524.6
115°	69.0	83.2	198.9	428.8	504.5
117.5°	75.9	90.9	195.8	400.1	474.1
120°	82.7	98.2	193.8	376.0	444.7
122.5°	89.9	105.4	192.1	356.6	418.7
125°	95.7	112.2	190.7	341.1	397.5
127.5°	100.5	118.6	190.0	327.8	378.0
130°	104.9	124.8	189.4	314.3	362.6
132.5°	108.3	130.2	189.4	299.8	347.3
135°	112.1	134.8	189.4	285.9	330.2
137.5°	116.9	139.1	189.7	271.4	312.4
140°	121.0	142.7	190.0	258.0	293.6
142.5°	125.8	146.1	190.4	246.6	276.2
145°	130.6	149.6	190.0	236.7	260.4
147.5°	135.7	152.6	189.4	228.2	246.4
150°	140.1	155.3	188.3	221.2	235.2
152.5°	144.9	158.0	187.0	215.2	226.3
155°	149.0	160.3	185.3	209.4	218.4
157.5°	152.8	162.5	183.5	203.9	211.2
160°	156.5	164.2	181.8	198.4	204.0
162.5°	159.6	165.9	179.8	193.4	197.6
165°	162.7	167.1	177.7	188.5	191.4
167.5°	164.7	167.8	175.7	183.9	185.6
170°	166.8	168.7	174.0	179.4	180.5
172.5°	168.2	169.0	171.9	175.8	175.7
175°	169.2	169.2	170.6	172.6	171.9
177.5°	169.9	169.2	169.5	170.6	169.5
180°	169.5	169.5	169.5	169.5	169.5

(END OF REPORT)