

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: P1028443

Luminaire Tested: S125RDIP-B1090D1090UB50-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1028443
REPORT IS A COMBINATION OF REPORTS P1004958 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIP-B1090D1090UB50-4F0-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

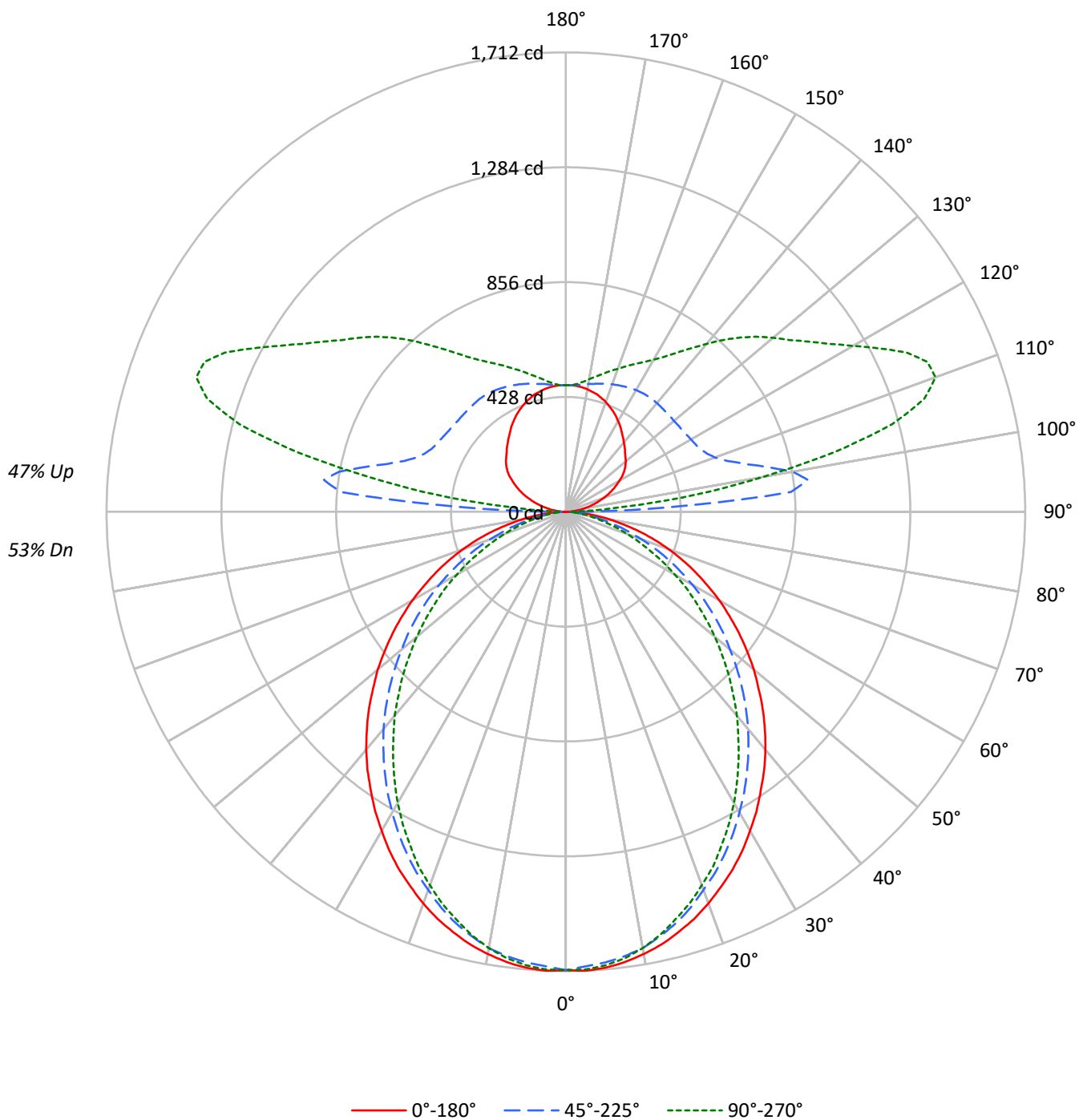
Lumens per Lamp: N/A
Luminaire Lumens: 7585.2 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 75.3
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	108	108	108	108	100	100	100	100	85	85	85	72	72	72	59	59	59
1	99	95	91	87	91	88	84	81	75	73	70	63	62	60	53	51	50
2	90	83	77	72	83	77	72	67	66	62	59	56	53	51	47	45	43
3	82	73	66	60	76	68	62	56	58	54	50	50	46	43	41	39	37
4	75	65	57	51	70	60	53	48	52	47	42	44	40	37	37	34	32
5	69	58	50	44	64	54	47	41	47	41	37	40	36	32	34	30	28
6	64	52	44	38	59	49	41	36	42	36	32	36	32	28	31	27	25
7	59	47	39	33	55	44	37	32	38	33	28	33	28	25	28	25	22
8	55	43	35	30	51	40	33	28	35	29	25	30	26	22	26	22	20
9	51	39	32	27	47	37	30	25	32	27	23	28	23	20	24	20	18
10	48	36	29	24	44	34	27	23	30	24	21	26	21	18	22	19	16

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	2.1
10°-20°	449.3	5.9
20°-30°	651.5	8.6
30°-40°	742.2	9.8
40°-50°	723.5	9.5
50°-60°	608.8	8.0
60°-70°	426.7	5.6
70°-80°	218.7	2.9
80°-90°	56.4	0.7
90°-100°	354.9	4.7
100°-110°	737.2	9.7
110°-120°	688.6	9.1
120°-130°	557.2	7.3
130°-140°	447.7	5.9
140°-150°	337.9	4.5
150°-160°	237.9	3.1
160°-170°	140.2	1.8
170°-180°	45.6	0.6
0°-30°	1261.6	16.6
0°-40°	2003.8	26.4
0°-60°	3336.1	44.0
0°-90°	4037.9	53.2
90°-120°	1780.8	23.5
90°-150°	3123.6	41.2
90°-180°	3547.0	46.8
0°-180°	7585.2	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°	1	9	15	20	22	6
95°	31	93	842	382	223	33
105°	107	150	689	1356	1259	113
115°	192	231	553	1192	1403	189
125°	266	312	530	948	1105	236
135°	312	375	526	795	918	242
145°	363	416	528	658	724	228
155°	414	446	515	582	607	191
165°	452	465	494	524	532	127
175°	470	470	474	480	478	45
180°	471	471	471	471	471	

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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°	1.0	8.6	15.2	20.0	21.9
92.5°	14.3	77.9	379.2	101.2	70.3
95°	31.4	92.6	841.9	382.0	223.3
97.5°	48.5	100.2	909.4	689.9	489.4
100°	66.5	115.0	858.1	975.0	741.2
102.5°	86.5	131.6	767.8	1216.4	1022.5
105°	107.4	150.1	688.9	1356.5	1259.1
107.5°	127.3	169.6	630.0	1395.9	1401.6
110°	149.2	190.0	591.1	1358.4	1466.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.0	210.5	568.3	1280.0	1458.6
115°	192.0	231.4	553.0	1192.1	1402.6
117.5°	211.0	252.8	544.5	1112.2	1318.0
120°	230.0	273.2	538.8	1045.3	1236.3
122.5°	249.9	293.2	534.0	991.6	1164.1
125°	266.1	311.6	530.2	948.4	1105.1
127.5°	279.4	329.8	528.3	911.3	1051.0
130°	291.7	346.8	526.4	873.8	1008.2
132.5°	301.2	362.0	526.4	833.4	965.5
135°	311.7	374.8	526.4	794.9	917.9
137.5°	325.0	386.8	527.4	754.5	868.5
140°	336.4	396.8	528.3	717.4	816.3
142.5°	349.7	406.2	529.3	685.6	767.8
145°	363.0	415.8	528.3	658.0	724.1
147.5°	377.3	424.3	526.4	634.3	685.1
150°	389.6	431.9	523.6	614.8	653.8
152.5°	402.9	439.5	519.8	598.2	629.1
155°	414.3	445.6	515.0	582.0	607.2
157.5°	424.8	451.8	510.3	566.8	587.3
160°	435.2	456.6	505.5	551.6	567.3
162.5°	443.8	461.4	499.8	537.8	549.2
165°	452.3	464.6	494.1	524.0	532.1
167.5°	458.0	466.6	488.4	511.2	516.0
170°	463.7	469.0	483.7	498.8	501.7
172.5°	467.5	469.9	478.0	488.9	488.4
175°	470.4	470.4	474.2	479.9	478.0
177.5°	472.3	470.4	471.3	474.2	471.3
180°	471.3	471.3	471.3	471.3	471.3

(END OF REPORT)