

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: P1034724

Luminaire Tested: S125RDIW-B1090D470UB2750-4F0-XX-W2A-F1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034724
REPORT IS A COMBINATION OF REPORTS P1006064 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D470UB2750-4F0-XX-W2A-F1_5000K
Description: Define 5 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

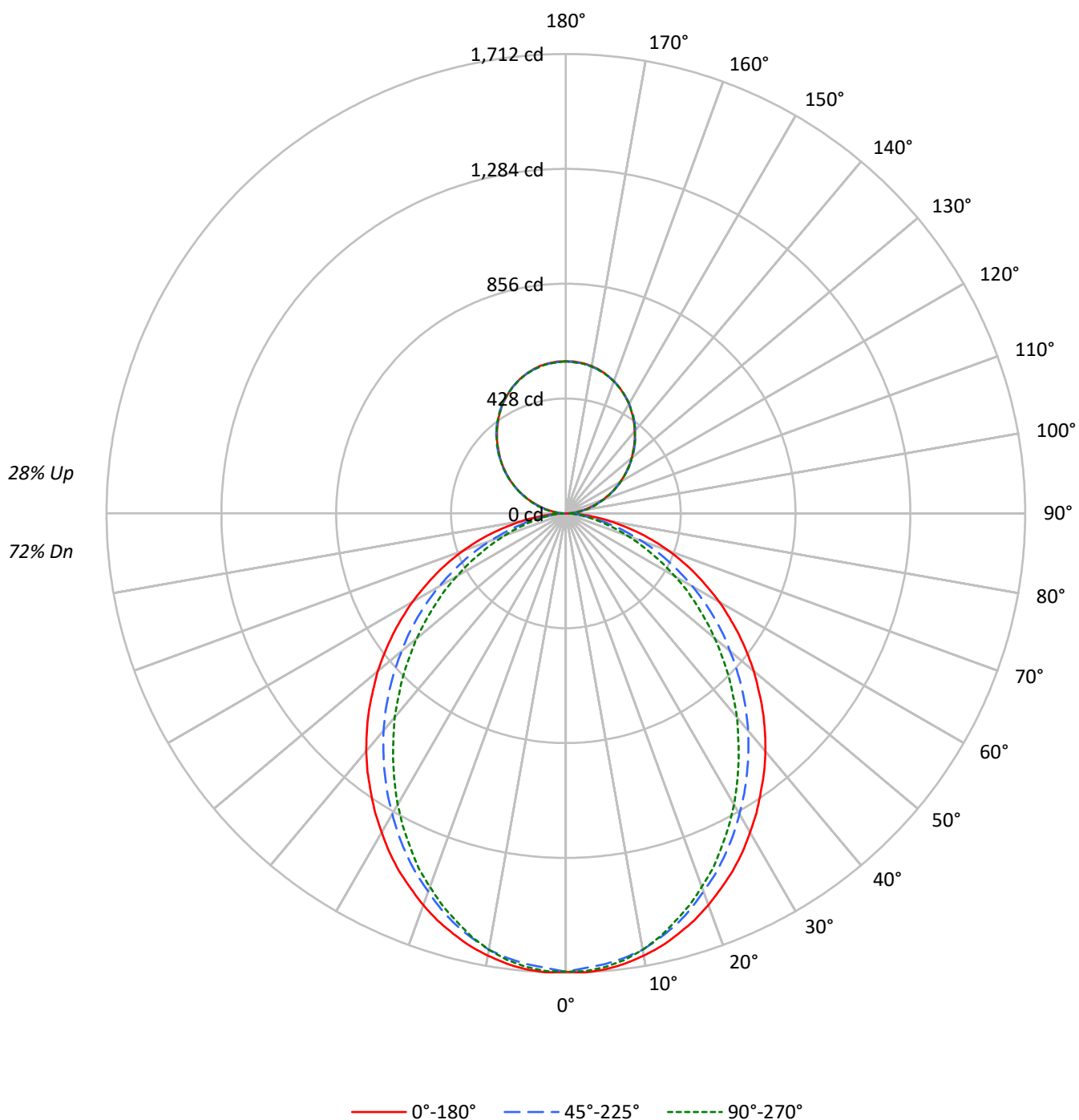
Lumens per Lamp: N/A
Luminaire Lumens: 5617.0 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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: P1034724

CATALOG NUMBER: S125RDIW-B1090D470UB2750-4F0-XX-W2A-F1_5000K

Luminous Intensity Polar Plot



TEST NUMBER: P1034724

CATALOG NUMBER: S125RDIW-B1090D470UB2750-4F0-XX-W2A-F1_5000K

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76
1	103	99	95	91	98	94	90	87	84	82	79	76	74	72	68	66	65
2	94	87	80	75	89	82	77	72	74	70	66	67	64	61	60	58	55
3	86	76	69	63	81	73	66	61	66	60	56	59	55	52	54	50	47
4	79	68	60	54	75	65	57	52	59	53	48	53	48	45	48	44	41
5	73	61	52	46	69	58	50	45	53	47	42	48	43	39	43	39	36
6	67	55	46	40	63	52	45	39	48	41	37	44	38	34	40	35	32
7	62	50	41	36	59	48	40	35	43	37	33	40	34	30	36	32	28
8	58	45	37	32	55	43	36	31	40	34	29	36	31	27	33	29	26
9	54	42	34	29	51	40	33	28	37	31	26	34	28	25	31	26	23
10	51	38	31	26	48	37	30	25	34	28	24	31	26	22	29	24	21

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

TEST NUMBER: P1034724

CATALOG NUMBER: S125RDIW-B1090D470UB2750-4F0-XX-W2A-F1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.9
10°-20°	449.3	8.0
20°-30°	651.5	11.6
30°-40°	742.2	13.2
40°-50°	723.5	12.9
50°-60°	608.8	10.8
60°-70°	426.7	7.6
70°-80°	218.7	3.9
80°-90°	55.4	1.0
90°-100°	37.7	0.7
100°-110°	111.8	2.0
110°-120°	189.7	3.4
120°-130°	249.7	4.4
130°-140°	279.8	5.0
140°-150°	274.3	4.9
150°-160°	230.4	4.1
160°-170°	153.1	2.7
170°-180°	53.6	1.0
0°-30°	1261.6	22.5
0°-40°	2003.8	35.7
0°-60°	3336.1	59.4
0°-90°	4036.9	71.9
90°-120°	339.2	6.0
90°-150°	1143.0	20.3
90°-180°	1580.0	28.1
0°-180°	5617.0	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	4	7	9	11	6
95°	29	30	34	37	38	30
105°	100	103	105	108	109	107
115°	190	192	192	192	192	188
125°	277	280	280	279	279	248
135°	360	363	364	364	362	278
145°	437	438	440	440	438	273
155°	500	500	500	502	500	230
165°	543	542	543	545	542	153
175°	565	563	563	566	563	54
180°	566	566	566	566	566	

TEST NUMBER: P1034724

CATALOG NUMBER: S125RDIW-B1090D470UB2750-4F0-XX-W2A-F1_5000K

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°	0.4	4.0	7.0	9.3	10.6
92.5°	13.2	15.4	19.4	22.5	23.4
95°	28.6	29.5	33.9	37.0	37.9
97.5°	44.1	44.5	50.7	53.3	53.8
100°	61.7	61.7	67.4	71.4	72.3
102.5°	80.6	82.8	85.0	89.4	90.8
105°	100.5	102.7	105.3	107.9	109.3
107.5°	122.0	124.2	126.5	127.8	127.8
110°	144.5	146.7	148.0	149.4	148.9



TEST NUMBER: P1034724

CATALOG NUMBER: S125RDIW-B1090D470UB2750-4F0-XX-W2A-F1_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	167.4	168.3	170.1	170.5	169.6
115°	189.9	191.7	192.5	192.1	191.7
117.5°	212.8	213.2	214.1	214.6	212.8
120°	234.0	236.2	236.6	236.6	234.8
122.5°	256.9	257.3	258.6	258.2	256.9
125°	277.1	279.8	280.2	279.3	278.9
127.5°	299.6	300.9	301.4	300.9	300.0
130°	319.4	321.6	322.5	322.1	321.2
132.5°	339.3	343.2	342.8	342.3	341.0
135°	360.4	363.1	363.5	363.5	361.7
137.5°	380.2	382.9	383.8	384.2	382.0
140°	399.2	401.4	402.7	403.6	401.4
142.5°	418.1	419.9	421.6	422.1	419.9
145°	436.6	438.4	439.7	439.7	438.4
147.5°	453.8	455.1	456.0	457.3	453.8
150°	471.0	470.6	472.3	472.3	471.4
152.5°	485.1	486.0	486.4	487.7	486.0
155°	499.6	499.6	500.1	501.8	499.6
157.5°	512.9	512.0	512.4	514.2	511.1
160°	524.3	523.0	523.4	525.2	523.0
162.5°	534.4	533.6	533.6	535.8	533.1
165°	543.3	542.4	542.8	544.6	541.9
167.5°	551.2	549.4	549.4	552.1	549.4
170°	557.4	555.6	555.6	558.2	555.1
172.5°	561.8	560.0	560.0	562.6	560.0
175°	564.8	563.1	563.1	565.7	562.6
177.5°	567.0	565.3	564.8	567.5	564.4
180°	566.2	566.2	566.2	566.2	566.2

(END OF REPORT)