

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: P1035750

Luminaire Tested: S125RDIW-B1090D470UB50-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035750
REPORT IS A COMBINATION OF REPORTS P1006092 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B1090D470UB50-4F0-XX-W2A-F
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

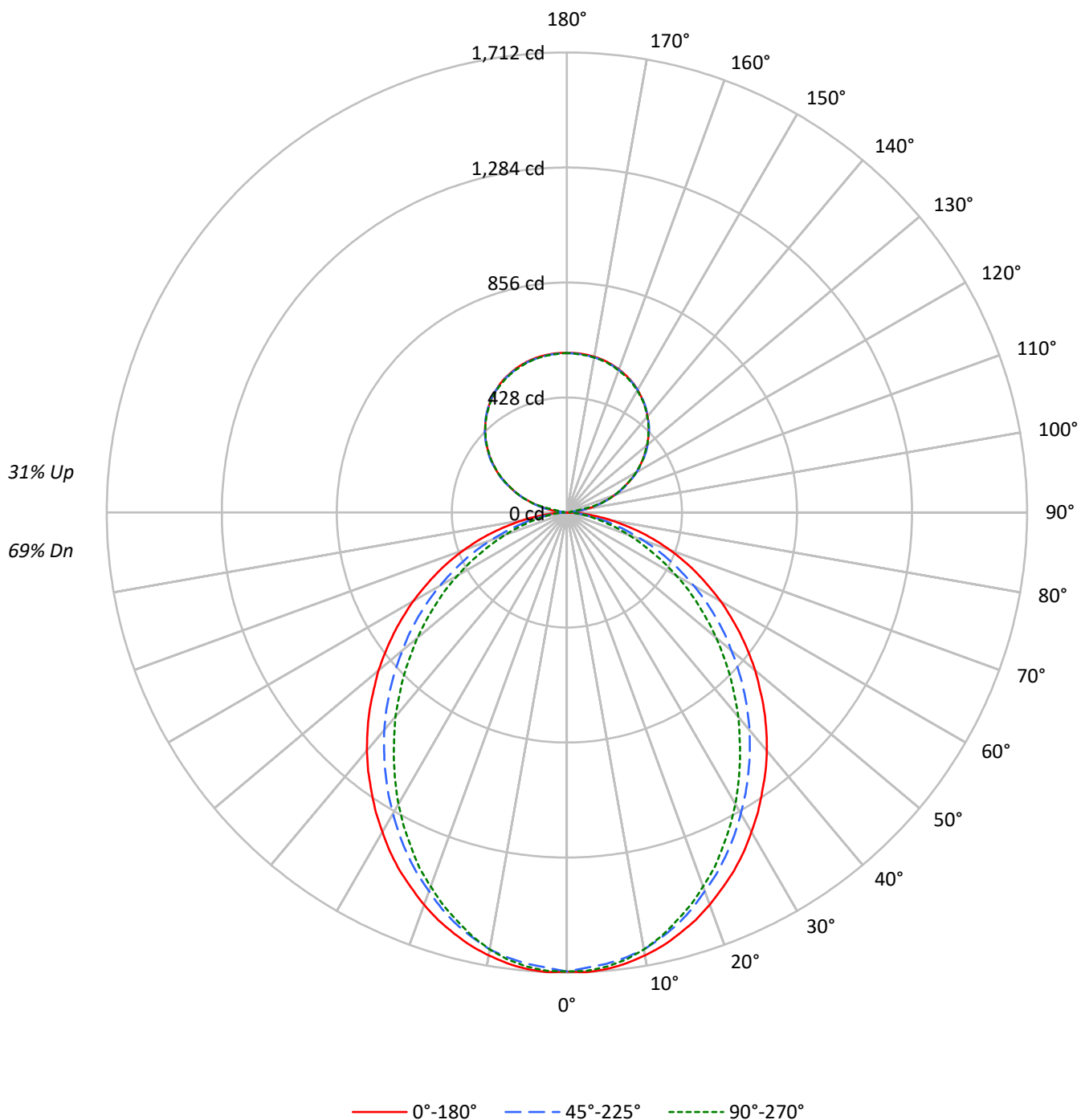
Lumens per Lamp: N/A
Luminaire Lumens: 5859.0 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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

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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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73
1	102	98	94	91	97	93	89	86	83	80	78	74	72	70	65	64	63
2	93	86	80	75	88	81	76	71	73	69	65	65	62	59	58	56	53
3	85	76	68	63	80	72	65	60	65	59	55	58	54	50	52	48	46
4	78	67	59	53	74	64	57	51	58	52	47	52	47	43	46	43	40
5	72	60	52	46	68	57	50	44	52	46	41	47	42	38	42	38	35
6	67	54	46	40	63	52	44	39	47	41	36	42	37	33	38	34	31
7	62	49	41	35	58	47	40	34	43	36	32	39	33	30	35	31	27
8	57	45	37	32	54	43	36	31	39	33	29	35	30	27	32	28	25
9	54	41	33	28	51	39	32	27	36	30	26	33	28	24	30	25	22
10	50	38	30	26	47	36	29	25	33	27	23	30	25	22	28	23	20

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	2.7
10°-20°	449.3	7.7
20°-30°	651.5	11.1
30°-40°	742.2	12.7
40°-50°	723.5	12.3
50°-60°	608.8	10.4
60°-70°	426.7	7.3
70°-80°	218.7	3.7
80°-90°	55.4	0.9
90°-100°	20.1	0.3
100°-110°	133.9	2.3
110°-120°	241.1	4.1
120°-130°	309.4	5.3
130°-140°	332.8	5.7
140°-150°	312.4	5.3
150°-160°	252.7	4.3
160°-170°	163.4	2.8
170°-180°	56.4	1.0
0°-30°	1261.6	21.5
0°-40°	2003.8	34.2
0°-60°	3336.1	56.9
0°-90°	4036.9	68.9
90°-120°	395.1	6.7
90°-150°	1349.7	23.0
90°-180°	1822.0	31.1
0°-180°	5859.0	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	5
95°	25	24	7	9	9	31
105°	129	131	131	131	131	137
115°	243	245	245	244	241	241
125°	345	348	348	346	345	308
135°	430	433	432	431	429	332
145°	499	500	500	500	498	312
155°	550	547	548	549	546	253
165°	580	577	578	580	577	164
175°	593	590	591	594	590	56
180°	593	593	593	593	593	

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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°	0.4	4.0	7.0	9.2	10.6
92.5°	8.4	4.4	7.0	9.2	9.7
95°	25.1	23.7	7.0	9.2	9.2
97.5°	47.0	49.7	7.9	8.8	9.2
100°	73.4	74.8	76.5	11.0	9.2
102.5°	100.3	102.0	102.9	103.8	66.8
105°	129.3	131.0	131.0	131.0	130.6
107.5°	159.2	159.2	160.1	160.5	158.7
110°	188.2	188.2	189.1	187.8	188.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215.5	216.8	217.2	215.5	214.6
115°	242.7	244.9	245.4	243.6	241.0
117.5°	271.3	271.3	273.1	270.4	269.5
120°	297.7	297.2	298.6	297.7	295.5
122.5°	321.0	323.2	323.6	322.8	320.1
125°	345.2	348.3	348.3	346.5	345.2
127.5°	368.5	370.7	370.2	369.4	365.8
130°	389.6	391.8	392.2	390.9	388.7
132.5°	410.7	413.3	412.0	412.0	409.8
135°	430.5	433.1	432.2	431.4	428.7
137.5°	449.0	451.6	450.7	450.7	448.5
140°	467.0	467.9	467.4	468.3	465.7
142.5°	483.2	483.7	484.6	484.6	481.9
145°	499.1	500.0	500.0	500.4	497.8
147.5°	513.2	513.2	513.6	514.0	511.0
150°	526.3	525.5	526.3	527.2	523.7
152.5°	539.1	536.9	537.8	538.7	535.6
155°	549.6	547.0	547.9	549.2	545.7
157.5°	558.0	556.7	556.7	558.0	554.5
160°	566.8	564.2	564.6	566.4	562.8
162.5°	573.8	571.2	571.6	574.3	570.3
165°	580.0	577.3	577.8	580.4	576.9
167.5°	584.8	582.2	582.6	585.7	581.7
170°	588.8	585.7	586.1	589.7	585.7
172.5°	591.4	588.3	589.2	592.3	588.3
175°	593.2	590.5	591.0	594.5	590.5
177.5°	594.5	591.9	592.3	595.4	591.9
180°	593.2	593.2	593.2	593.2	593.2

(END OF REPORT)