

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: P1036130

Luminaire Tested: S125RDIW-B850D470UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036130
REPORT IS A COMBINATION OF REPORTS P1006954 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D470UB30-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

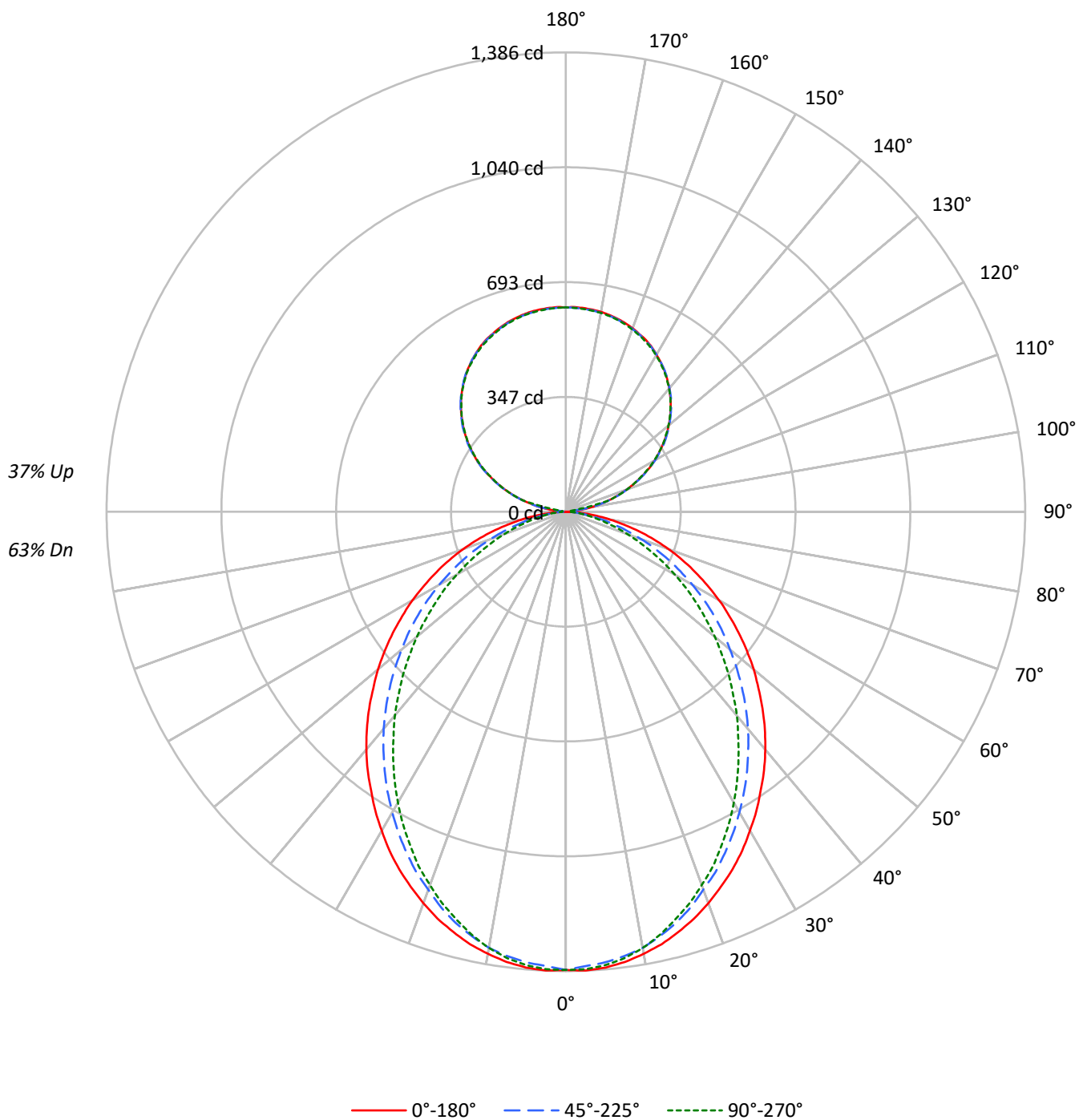
Lumens per Lamp: N/A
Luminaire Lumens: 5162.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 49.1
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	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68
1	101	97	93	89	95	91	88	85	80	78	75	70	68	67	61	60	58
2	92	85	79	74	86	80	74	70	71	66	63	62	59	56	54	52	50
3	84	75	67	62	79	71	64	59	62	57	53	55	51	48	48	45	42
4	77	66	58	52	72	63	56	50	56	50	46	49	45	41	43	40	37
5	71	59	51	45	67	56	49	43	50	44	39	44	40	36	39	35	32
6	66	53	45	39	61	51	43	38	45	39	35	40	35	32	35	32	28
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	32	28	25
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23
9	53	40	33	28	50	38	31	27	35	29	25	31	26	23	28	24	21
10	49	37	30	25	46	35	29	24	32	26	22	29	24	21	26	22	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8857	8857	8857
5°	8858	8636	8650
10°	8772	8418	8344
15°	8647	8114	7943
20°	8494	7747	7521
25°	8317	7389	7069
30°	8102	6996	6594
35°	7882	6596	6089
40°	7672	6186	5597
45°	7420	5743	5081
50°	7165	5273	4556
55°	6869	4810	4012
60°	6566	4280	3448
65°	6205	3689	2839
70°	5783	3002	2234
75°	5201	2257	1628
80°	4385	1461	1099
85°	3282	785	618

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 7420 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	2.5
10°-20°	363.6	7.0
20°-30°	527.2	10.2
30°-40°	600.6	11.6
40°-50°	585.4	11.3
50°-60°	492.7	9.5
60°-70°	345.2	6.7
70°-80°	177.0	3.4
80°-90°	45.1	0.9
90°-100°	20.9	0.4
100°-110°	139.2	2.7
110°-120°	250.7	4.9
120°-130°	321.8	6.2
130°-140°	346.1	6.7
140°-150°	324.9	6.3
150°-160°	262.8	5.1
160°-170°	170.0	3.3
170°-180°	58.6	1.1
0°-30°	1020.9	19.8
0°-40°	1621.5	31.4
0°-60°	2699.6	52.3
0°-90°	3266.9	63.3
90°-120°	410.9	8.0
90°-150°	1403.8	27.2
90°-180°	1895.0	36.7
0°-180°	5162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1380	1376	1365	1375	1373	131
15°	1312	1306	1284	1283	1274	370
25°	1190	1175	1136	1122	1111	548
35°	1025	1000	953	923	908	642
45°	839	809	752	710	694	647
55°	637	604	545	498	481	570
65°	431	396	340	299	283	427
75°	230	198	154	132	124	243
85°	57	39	33	32	31	63
90°	0	4	7	10	11	5
95°	26	25	7	10	10	32
105°	134	136	136	136	136	142
115°	252	255	255	253	251	250
125°	359	362	362	360	359	321
135°	448	450	450	449	446	345
145°	519	520	520	520	518	325
155°	572	569	570	571	568	263
165°	603	600	601	604	600	170
175°	617	614	615	618	614	59
180°	617	617	617	617	617	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1385.5	1382.3	1371.9	1382.3	1381.3
5°	1380.3	1376.1	1364.6	1375.0	1373.0
7.5°	1369.8	1365.6	1352.1	1360.4	1358.3
10°	1354.2	1351.0	1336.4	1339.5	1336.4
12.5°	1336.4	1332.2	1311.4	1313.4	1308.2
15°	1312.4	1306.1	1284.2	1283.2	1273.8
17.5°	1287.3	1277.9	1251.8	1246.6	1239.3
20°	1257.1	1246.6	1213.2	1208.0	1198.6
22.5°	1223.7	1213.2	1177.7	1166.2	1158.9
25°	1190.2	1174.6	1135.9	1122.4	1110.9
27.5°	1152.7	1133.9	1093.1	1075.4	1063.9
30°	1110.9	1091.1	1047.2	1023.2	1013.8
32.5°	1070.2	1046.2	1001.3	974.1	961.6
35°	1025.3	1000.2	953.2	923.0	908.3
37.5°	982.5	952.2	904.2	868.7	854.0
40°	936.5	905.2	855.1	815.4	802.9
42.5°	888.5	856.1	803.9	766.3	746.5
45°	839.4	809.2	751.7	710.0	694.3
47.5°	788.3	757.0	699.5	656.7	639.0
50°	740.2	705.8	646.3	602.4	586.8
52.5°	688.0	652.5	597.2	549.2	533.5
55°	636.9	603.5	545.0	498.0	481.3
57.5°	584.7	549.2	492.8	446.9	432.2
60°	534.6	498.0	441.6	395.7	380.0
62.5°	481.3	446.9	389.4	347.7	332.0
65°	431.2	395.7	340.4	298.6	282.9
67.5°	381.1	345.6	292.3	252.7	240.1
70°	329.9	294.4	242.2	209.9	197.3
72.5°	279.8	245.4	197.3	168.1	160.8
75°	229.7	198.4	154.5	131.6	124.2
77.5°	178.5	153.5	116.9	99.2	92.9
80°	135.7	110.7	81.4	72.0	70.0
82.5°	94.0	72.0	54.3	51.2	50.1
85°	57.4	38.6	33.4	32.4	31.3
87.5°	24.0	16.7	15.7	15.7	14.6
90°	0.5	4.1	7.3	9.6	11.0
92.5°	8.7	4.6	7.3	9.6	10.1
95°	26.1	24.7	7.3	9.6	9.6
97.5°	48.9	51.7	8.2	9.1	9.6
100°	76.4	77.7	79.6	11.4	9.6
102.5°	104.3	106.1	107.0	107.9	69.5
105°	134.5	136.3	136.3	136.3	135.8
107.5°	165.6	165.6	166.5	166.9	165.1
110°	195.7	195.7	196.6	195.3	195.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	224.1	225.5	225.9	224.1	223.2
115°	252.4	254.7	255.2	253.4	250.6
117.5°	282.2	282.2	284.0	281.3	280.3
120°	309.6	309.2	310.5	309.6	307.3
122.5°	333.8	336.1	336.6	335.7	332.9
125°	359.0	362.2	362.2	360.4	359.0
127.5°	383.2	385.5	385.1	384.2	380.5
130°	405.2	407.5	407.9	406.6	404.3
132.5°	427.1	429.9	428.5	428.5	426.2
135°	447.7	450.5	449.6	448.6	445.9
137.5°	466.9	469.7	468.8	468.8	466.5
140°	485.7	486.6	486.1	487.1	484.3
142.5°	502.6	503.1	504.0	504.0	501.2
145°	519.1	520.0	520.0	520.4	517.7
147.5°	533.7	533.7	534.2	534.6	531.4
150°	547.4	546.5	547.4	548.3	544.7
152.5°	560.7	558.4	559.3	560.2	557.0
155°	571.7	568.9	569.8	571.2	567.5
157.5°	580.3	579.0	579.0	580.3	576.7
160°	589.5	586.7	587.2	589.0	585.4
162.5°	596.8	594.1	594.5	597.3	593.2
165°	603.2	600.5	600.9	603.7	600.0
167.5°	608.2	605.5	606.0	609.2	605.0
170°	612.4	609.2	609.6	613.3	609.2
172.5°	615.1	611.9	612.8	616.0	611.9
175°	616.9	614.2	614.6	618.3	614.2
177.5°	618.3	615.6	616.0	619.2	615.6
180°	616.9	616.9	616.9	616.9	616.9

(END OF REPORT)