

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: P1036134

Luminaire Tested: S125RDIW-B850D470UB35-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036134
REPORT IS A COMBINATION OF REPORTS P1006960 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D470UB35-4F0-XX-W2A-F
Description: Define 5 Regressed Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

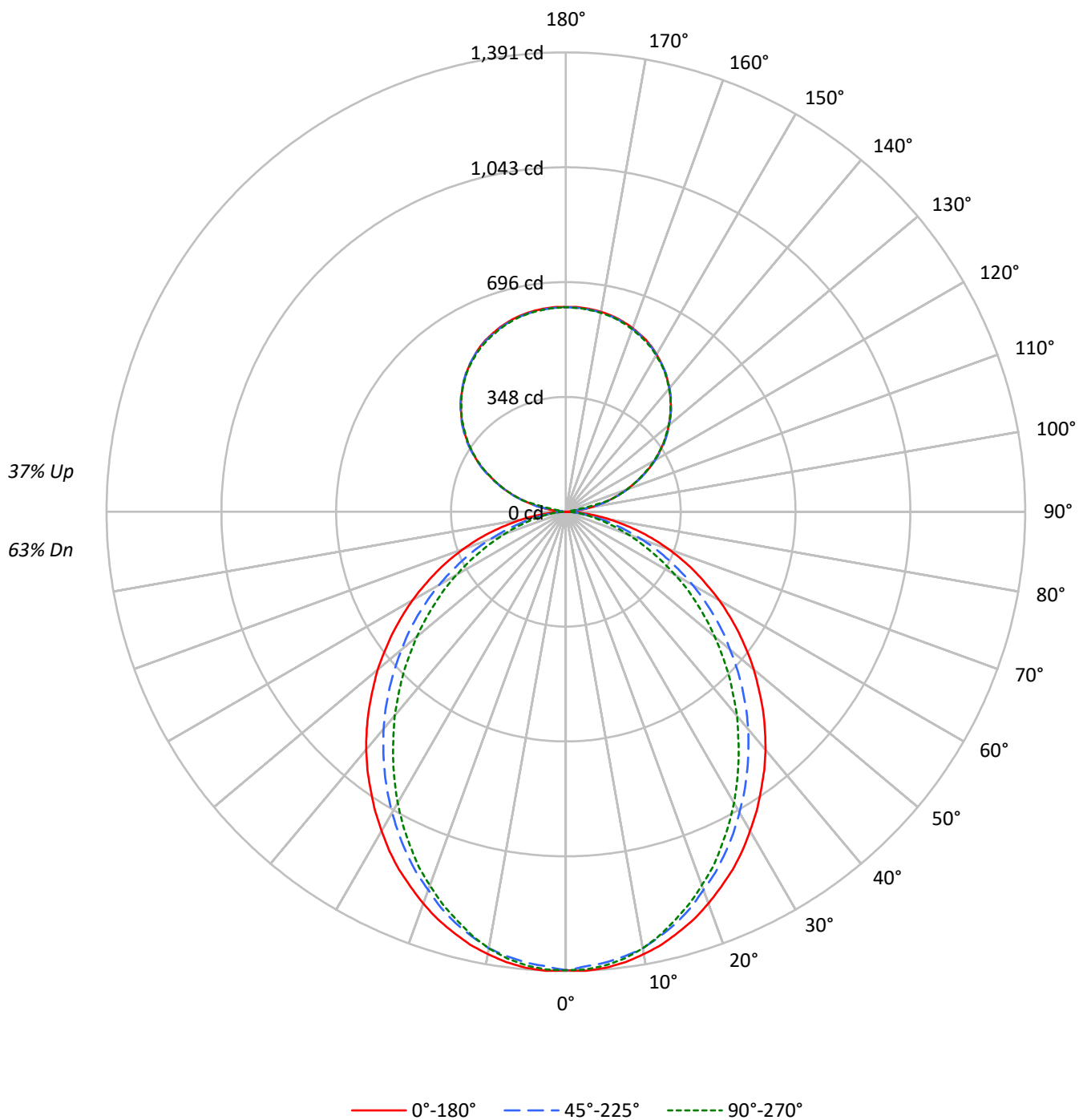
Lumens per Lamp: N/A
Luminaire Lumens: 5184.0 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 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°	8895	8895	8895
5°	8896	8673	8687
10°	8809	8454	8380
15°	8684	8149	7976
20°	8530	7781	7553
25°	8353	7421	7099
30°	8137	7026	6622
35°	7915	6625	6115
40°	7705	6213	5621
45°	7452	5768	5103
50°	7196	5296	4576
55°	6898	4830	4030
60°	6594	4298	3463
65°	6230	3704	2852
70°	5807	3016	2245
75°	5224	2268	1636
80°	4405	1469	1104
85°	3299	790	622

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7452 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	2.5
10°-20°	365.1	7.0
20°-30°	529.4	10.2
30°-40°	603.2	11.6
40°-50°	587.9	11.3
50°-60°	494.8	9.5
60°-70°	346.7	6.7
70°-80°	177.7	3.4
80°-90°	45.2	0.9
90°-100°	21.0	0.4
100°-110°	139.8	2.7
110°-120°	251.8	4.9
120°-130°	323.2	6.2
130°-140°	347.6	6.7
140°-150°	326.2	6.3
150°-160°	263.9	5.1
160°-170°	170.7	3.3
170°-180°	58.9	1.1
0°-30°	1025.3	19.8
0°-40°	1628.5	31.4
0°-60°	2711.2	52.3
0°-90°	3280.9	63.3
90°-120°	412.6	8.0
90°-150°	1409.7	27.2
90°-180°	1903.0	36.7
0°-180°	5184.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1386	1382	1370	1381	1379	131
15°	1318	1312	1290	1289	1279	372
25°	1195	1180	1141	1127	1116	550
35°	1030	1004	957	927	912	645
45°	843	813	755	713	697	650
55°	640	606	547	500	483	572
65°	433	397	342	300	284	429
75°	231	199	155	132	125	244
85°	58	39	34	32	32	63
90°	0	4	7	10	11	5
95°	26	25	7	10	10	32
105°	135	137	137	137	136	143
115°	254	256	256	254	252	251
125°	360	364	364	362	360	322
135°	450	452	451	450	448	347
145°	521	522	522	523	520	326
155°	574	571	572	574	570	265
165°	606	603	604	606	602	171
175°	620	617	617	621	617	59
180°	620	620	620	620	620	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.3	1388.3	1388.3	1388.3	1388.3
2.5°	1391.4	1388.3	1377.8	1388.3	1387.2
5°	1386.2	1382.0	1370.4	1380.9	1378.8
7.5°	1375.7	1371.5	1357.9	1366.3	1364.2
10°	1360.0	1356.8	1342.1	1345.3	1342.1
12.5°	1342.1	1337.9	1317.0	1319.1	1313.8
15°	1318.0	1311.7	1289.7	1288.7	1279.2
17.5°	1292.9	1283.4	1257.2	1252.0	1244.6
20°	1262.4	1252.0	1218.4	1213.2	1203.7
22.5°	1228.9	1218.4	1182.8	1171.2	1163.9
25°	1195.3	1179.6	1140.8	1127.2	1115.7
27.5°	1157.6	1138.7	1097.8	1080.0	1068.5
30°	1115.7	1095.7	1051.7	1027.6	1018.1
32.5°	1074.8	1050.6	1005.6	978.3	965.7
35°	1029.7	1004.5	957.3	926.9	912.2
37.5°	986.7	956.3	908.0	872.4	857.7
40°	940.5	909.1	858.8	818.9	806.3
42.5°	892.3	859.8	807.4	769.6	749.7
45°	843.0	812.6	755.0	713.0	697.3
47.5°	791.7	760.2	702.5	659.5	641.7
50°	743.4	708.8	649.1	605.0	589.3
52.5°	691.0	655.3	599.8	551.5	535.8
55°	639.6	606.1	547.3	500.2	483.4
57.5°	587.2	551.5	494.9	448.8	434.1
60°	536.9	500.2	443.5	397.4	381.7
62.5°	483.4	448.8	391.1	349.2	333.4
65°	433.0	397.4	341.8	299.9	284.2
67.5°	382.7	347.1	293.6	253.7	241.2
70°	331.3	295.7	243.3	210.8	198.2
72.5°	281.0	246.4	198.2	168.8	161.5
75°	230.7	199.2	155.2	132.1	124.8
77.5°	179.3	154.1	117.4	99.6	93.3
80°	136.3	111.1	81.8	72.3	70.3
82.5°	94.4	72.3	54.5	51.4	50.3
85°	57.7	38.8	33.6	32.5	31.5
87.5°	24.1	16.8	15.7	15.7	14.7
90°	0.5	4.1	7.3	9.6	11.0
92.5°	8.7	4.6	7.3	9.6	10.1
95°	26.2	24.8	7.3	9.6	9.6
97.5°	49.1	51.9	8.3	9.2	9.6
100°	76.7	78.1	79.9	11.5	9.6
102.5°	104.7	106.5	107.5	108.4	69.8
105°	135.0	136.9	136.9	136.9	136.4
107.5°	166.3	166.3	167.2	167.6	165.8
110°	196.6	196.6	197.5	196.1	196.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	225.0	226.4	226.9	225.0	224.1
115°	253.5	255.8	256.3	254.4	251.7
117.5°	283.4	283.4	285.2	282.4	281.5
120°	310.9	310.5	311.8	310.9	308.6
122.5°	335.3	337.6	338.0	337.1	334.3
125°	360.5	363.7	363.7	361.9	360.5
127.5°	384.9	387.2	386.7	385.8	382.1
130°	406.9	409.2	409.7	408.3	406.0
132.5°	428.9	431.7	430.3	430.3	428.0
135°	449.6	452.4	451.4	450.5	447.8
137.5°	468.9	471.7	470.7	470.7	468.4
140°	487.7	488.6	488.2	489.1	486.4
142.5°	504.7	505.2	506.1	506.1	503.3
145°	521.3	522.2	522.2	522.6	519.9
147.5°	536.0	536.0	536.4	536.9	533.7
150°	549.7	548.8	549.7	550.6	547.0
152.5°	563.0	560.8	561.7	562.6	559.4
155°	574.1	571.3	572.2	573.6	569.9
157.5°	582.8	581.4	581.4	582.8	579.1
160°	592.0	589.2	589.7	591.5	587.8
162.5°	599.3	596.6	597.0	599.8	595.7
165°	605.8	603.0	603.5	606.2	602.5
167.5°	610.8	608.1	608.5	611.7	607.6
170°	614.9	611.7	612.2	615.9	611.7
172.5°	617.7	614.5	615.4	618.6	614.5
175°	619.5	616.8	617.2	620.9	616.8
177.5°	620.9	618.2	618.6	621.8	618.2
180°	619.5	619.5	619.5	619.5	619.5

(END OF REPORT)