

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: P1034665

Luminaire Tested: S125DIW-B850D470UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034665
REPORT IS A COMBINATION OF REPORTS P1004255 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D470UB2750-4F0-XX-W2A-D_2700K
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

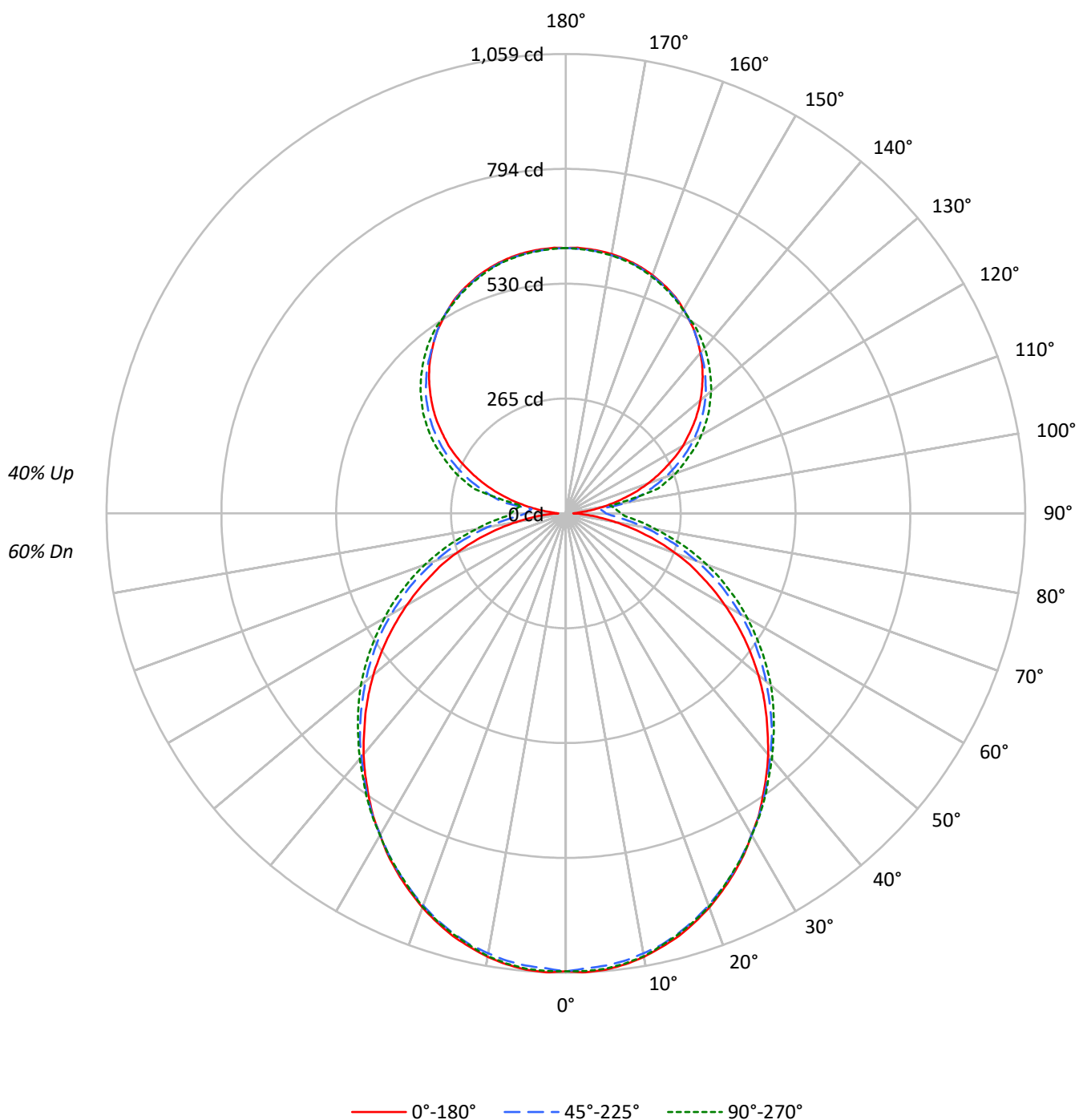
Lumens per Lamp: N/A
Luminaire Lumens: 5151.0 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	109	109	109	109	102	102	102	102	89	89	89	76	76	76	65	65	65	60		
1	99	94	90	86	92	88	84	81	77	74	71	66	64	62	56	55	53	48		
2	90	82	75	70	84	77	71	66	67	62	58	57	54	51	49	46	44	40		
3	82	72	64	58	76	67	60	55	58	53	49	50	46	43	43	40	37	33		
4	75	63	55	49	69	59	52	46	52	46	41	45	40	36	38	35	32	28		
5	69	56	48	42	64	53	45	39	46	40	35	40	35	31	34	31	28	24		
6	63	51	42	36	59	47	40	34	42	35	31	36	31	27	31	27	24	21		
7	58	46	37	32	54	43	35	30	38	32	27	33	28	24	28	24	21	19		
8	54	41	33	28	50	39	32	27	34	28	24	30	25	22	26	22	19	17		
9	50	38	30	25	47	36	29	24	32	26	22	28	23	19	24	20	17	15		
10	47	35	27	22	44	33	26	21	29	23	19	26	21	18	22	18	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6765	6765	6765
5°	6776	6623	6639
10°	6725	6488	6470
15°	6644	6331	6261
20°	6533	6141	6054
25°	6402	5939	5803
30°	6244	5719	5575
35°	6096	5516	5365
40°	5945	5302	5152
45°	5774	5117	4963
50°	5611	4916	4791
55°	5415	4723	4591
60°	5200	4505	4386
65°	4976	4274	4156
70°	4719	3966	3916
75°	4313	3660	3623
80°	3781	3289	3298
85°	3253	2993	3129

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 5774 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.9	1.9
10°-20°	283.6	5.5
20°-30°	421.8	8.2
30°-40°	499.5	9.7
40°-50°	516.4	10.0
50°-60°	475.7	9.2
60°-70°	384.6	7.5
70°-80°	257.3	5.0
80°-90°	133.9	2.6
90°-100°	95.7	1.9
100°-110°	193.3	3.8
110°-120°	285.6	5.5
120°-130°	340.0	6.6
130°-140°	352.4	6.8
140°-150°	323.9	6.3
150°-160°	260.6	5.1
160°-170°	168.5	3.3
170°-180°	58.1	1.1
0°-30°	805.4	15.6
0°-40°	1304.9	25.3
0°-60°	2297.1	44.6
0°-90°	3072.9	59.7
90°-120°	574.6	11.2
90°-150°	1590.9	30.9
90°-180°	2078.0	40.3
0°-180°	5151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1056	1054	1047	1055	1054	100
15°	1008	1009	1002	1008	1004	284
25°	916	919	913	917	912	422
35°	793	800	797	800	800	496
45°	653	665	670	677	678	504
55°	502	519	535	547	551	449
65°	346	370	394	410	414	343
75°	190	217	250	271	276	202
85°	57	91	127	150	158	59
90°	17	54	92	118	127	13
95°	39	65	83	108	115	42
105°	143	161	192	213	220	151
115°	256	266	293	310	314	254
125°	360	362	383	398	402	321
135°	446	448	454	467	469	344
145°	516	516	516	521	523	322
155°	567	564	565	566	563	261
165°	598	595	596	599	595	169
175°	612	609	610	613	609	58
180°	612	612	612	612	612	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.9	1055.9	1055.9	1055.9	1055.9
2.5°	1059.0	1056.9	1049.7	1056.9	1055.9
5°	1055.9	1053.8	1046.6	1054.9	1053.8
7.5°	1048.7	1047.6	1040.4	1047.6	1046.6
10°	1038.3	1038.3	1030.0	1037.3	1036.2
12.5°	1023.8	1024.8	1018.6	1023.8	1020.7
15°	1008.3	1009.3	1002.1	1008.3	1004.1
17.5°	988.6	990.7	983.4	988.6	985.5
20°	966.9	968.9	961.7	964.8	964.8
22.5°	942.0	946.2	937.9	942.0	938.9
25°	916.2	919.3	913.0	917.2	912.0
27.5°	888.2	892.3	885.1	888.2	886.1
30°	856.1	862.3	856.1	858.2	857.1
32.5°	827.1	832.3	828.2	830.2	829.2
35°	793.0	800.2	797.1	800.2	800.2
37.5°	759.8	766.0	765.0	769.2	768.1
40°	725.7	734.0	732.9	737.1	739.1
42.5°	688.4	699.8	702.9	708.1	708.1
45°	653.2	664.6	669.8	677.0	678.1
47.5°	617.0	627.3	635.6	646.0	648.0
50°	579.7	591.1	602.5	613.9	617.0
52.5°	540.4	554.9	569.4	581.8	583.9
55°	502.1	518.6	535.2	546.6	550.7
57.5°	462.7	482.4	501.0	513.5	516.6
60°	423.4	444.1	464.8	480.3	483.4
62.5°	385.1	405.8	428.6	446.2	450.3
65°	345.8	369.6	394.4	409.9	414.1
67.5°	309.5	332.3	357.1	375.8	381.0
70°	269.2	293.0	319.9	339.5	345.8
72.5°	229.8	254.7	284.7	306.4	310.6
75°	190.5	217.4	250.5	271.2	276.4
77.5°	152.2	183.2	214.3	237.1	241.2
80°	117.0	148.0	183.2	206.0	210.1
82.5°	84.9	118.0	154.2	176.0	184.3
85°	56.9	91.1	127.3	150.1	158.4
87.5°	36.2	69.4	104.6	128.4	135.6
90°	17.1	53.8	92.2	118.2	126.8
92.5°	23.1	49.0	88.0	113.0	120.8
95°	39.3	64.9	82.9	107.8	115.1
97.5°	60.9	88.5	79.6	102.3	109.9
100°	87.1	110.2	145.2	99.3	103.7
102.5°	113.8	135.2	168.2	189.8	157.9
105°	142.6	161.0	192.0	212.7	219.6
107.5°	172.5	187.0	217.9	239.0	243.4
110°	201.3	213.8	243.7	261.9	269.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	229.4	240.2	268.5	285.3	291.7
115°	256.5	266.1	293.4	310.2	313.7
117.5°	285.0	290.2	317.8	332.7	339.1
120°	312.2	314.8	340.0	356.7	360.6
122.5°	335.1	338.5	361.8	377.3	380.8
125°	360.1	362.2	382.9	397.7	401.5
127.5°	383.1	384.4	401.5	416.1	418.7
130°	404.9	406.1	421.1	434.2	437.1
132.5°	425.6	428.4	437.3	451.8	453.7
135°	446.0	447.7	454.1	466.6	469.0
137.5°	465.1	466.7	470.0	482.4	484.2
140°	482.6	483.5	484.1	496.4	497.8
142.5°	499.4	498.8	499.7	509.0	510.5
145°	515.7	515.6	515.6	521.2	522.6
147.5°	529.2	529.2	529.6	532.2	531.0
150°	542.8	541.9	542.8	543.7	541.1
152.5°	555.9	553.7	554.6	555.5	552.3
155°	566.8	564.1	565.0	566.4	562.8
157.5°	575.4	574.1	574.1	575.4	571.8
160°	584.5	581.8	582.3	584.1	580.4
162.5°	591.8	589.1	589.5	592.2	588.1
165°	598.1	595.4	595.9	598.6	594.9
167.5°	603.1	600.4	600.8	604.0	599.9
170°	607.2	604.0	604.5	608.1	604.0
172.5°	609.9	606.7	607.6	610.8	606.7
175°	611.7	609.0	609.5	613.1	609.0
177.5°	613.1	610.4	610.8	614.0	610.4
180°	611.7	611.7	611.7	611.7	611.7

(END OF REPORT)