

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: P1035617

Luminaire Tested: S125DIW-B850D470UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035617
REPORT IS A COMBINATION OF REPORTS P1004241 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D470UB27-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

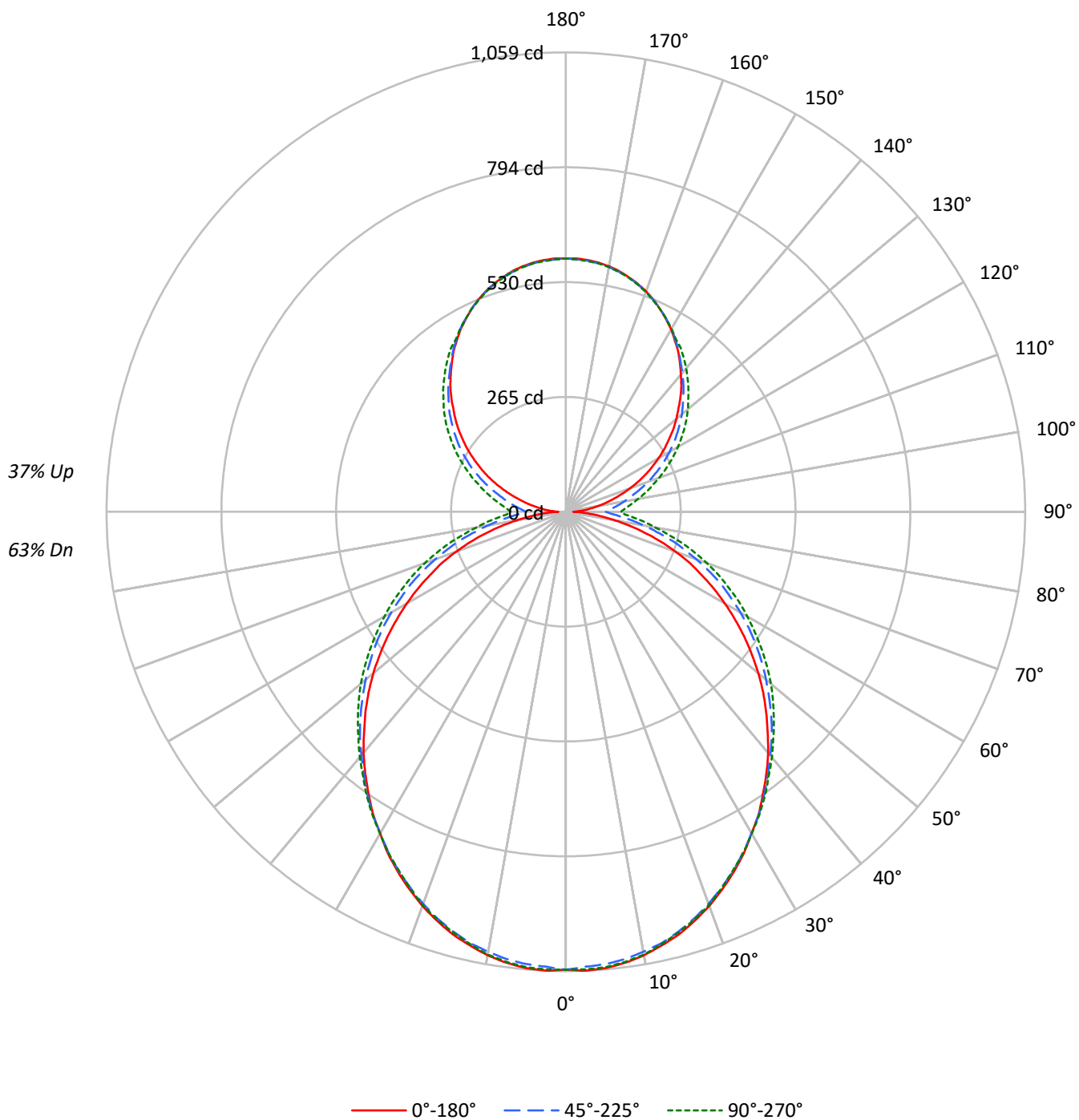
Lumens per Lamp: N/A
Luminaire Lumens: 4901.0 lumens
Efficiency: N/A
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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	90	90	90	79	79	79	68	68	68
1	100	95	91	87	93	89	85	82	78	75	72	68	66	64	58	57	55
2	90	82	76	70	84	77	71	66	68	63	59	59	56	52	51	48	46
3	82	72	64	58	77	68	61	55	60	54	49	52	48	44	45	42	39
4	75	64	55	49	70	60	52	47	53	47	42	46	41	37	40	36	33
5	69	57	48	42	64	53	46	40	47	41	36	41	36	32	36	32	29
6	64	51	42	36	59	48	40	35	42	36	31	37	32	28	32	28	25
7	59	46	38	32	55	43	36	30	38	32	28	34	29	25	30	26	22
8	55	42	34	28	51	39	32	27	35	29	25	31	26	22	27	23	20
9	51	38	30	25	48	36	29	24	32	26	22	29	24	20	25	21	18
10	48	35	28	23	45	33	26	22	30	24	20	26	22	18	23	19	16

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	2.0
10°-20°	283.6	5.8
20°-30°	421.8	8.6
30°-40°	499.5	10.2
40°-50°	516.4	10.5
50°-60°	475.7	9.7
60°-70°	384.6	7.8
70°-80°	257.3	5.3
80°-90°	133.9	2.7
90°-100°	113.7	2.3
100°-110°	170.5	3.5
110°-120°	232.5	4.7
120°-130°	278.4	5.7
130°-140°	297.7	6.1
140°-150°	284.6	5.8
150°-160°	237.5	4.8
160°-170°	157.9	3.2
170°-180°	55.3	1.1
0°-30°	805.4	16.4
0°-40°	1304.9	26.6
0°-60°	2297.1	46.9
0°-90°	3072.9	62.7
90°-120°	516.8	10.5
90°-150°	1377.5	28.1
90°-180°	1828.0	37.3
0°-180°	4901.0	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°	43	71	111	136	145	41
105°	113	132	166	189	198	120
115°	202	211	239	257	263	200
125°	290	292	313	328	333	259
135°	374	375	383	396	400	288
145°	451	452	453	458	461	282
155°	515	515	516	517	515	237
165°	560	559	560	562	559	158
175°	582	580	580	583	580	55
180°	584	584	584	584	584	

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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°	28.1	60.4	100.7	126.7	134.9
95°	43.0	70.8	110.6	136.5	144.7
97.5°	57.8	83.2	123.6	148.2	155.8
100°	75.0	96.7	135.8	161.6	168.7
102.5°	93.5	115.4	149.8	175.0	182.6
105°	112.9	131.7	165.5	188.9	197.6
107.5°	134.1	150.9	183.2	205.2	211.4
110°	156.2	171.0	201.3	222.3	229.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	179.8	190.1	219.8	238.9	245.3
115°	202.0	211.1	238.9	257.1	262.8
117.5°	224.6	230.3	257.0	275.0	280.5
120°	246.4	251.8	276.0	293.6	298.0
122.5°	268.9	270.5	294.6	310.7	315.5
125°	289.8	291.5	312.7	328.4	333.0
127.5°	312.0	312.4	330.4	345.5	350.7
130°	332.4	333.7	349.1	363.2	367.3
132.5°	351.9	356.0	365.8	379.9	382.7
135°	373.7	375.3	383.1	396.5	399.8
137.5°	394.1	395.7	400.9	413.7	415.5
140°	412.6	414.8	417.3	429.6	431.4
142.5°	432.1	432.9	434.7	444.5	446.4
145°	451.2	452.0	453.3	458.5	461.3
147.5°	467.9	469.2	470.1	473.6	472.0
150°	485.6	485.1	487.0	487.0	487.0
152.5°	500.1	501.0	501.5	502.9	501.0
155°	515.1	515.1	515.6	517.4	515.1
157.5°	528.7	527.8	528.3	530.1	526.9
160°	540.6	539.2	539.6	541.5	539.2
162.5°	551.0	550.1	550.1	552.4	549.6
165°	560.1	559.2	559.6	561.5	558.7
167.5°	568.3	566.4	566.4	569.2	566.4
170°	574.6	572.8	572.8	575.5	572.4
172.5°	579.2	577.4	577.4	580.1	577.4
175°	582.3	580.5	580.5	583.3	580.1
177.5°	584.6	582.8	582.3	585.1	581.9
180°	583.7	583.7	583.7	583.7	583.7

(END OF REPORT)