

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: P1035647

Luminaire Tested: S125DIW-B850D770UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035647
REPORT IS A COMBINATION OF REPORTS P1004307 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B850D770UB27-4F0-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

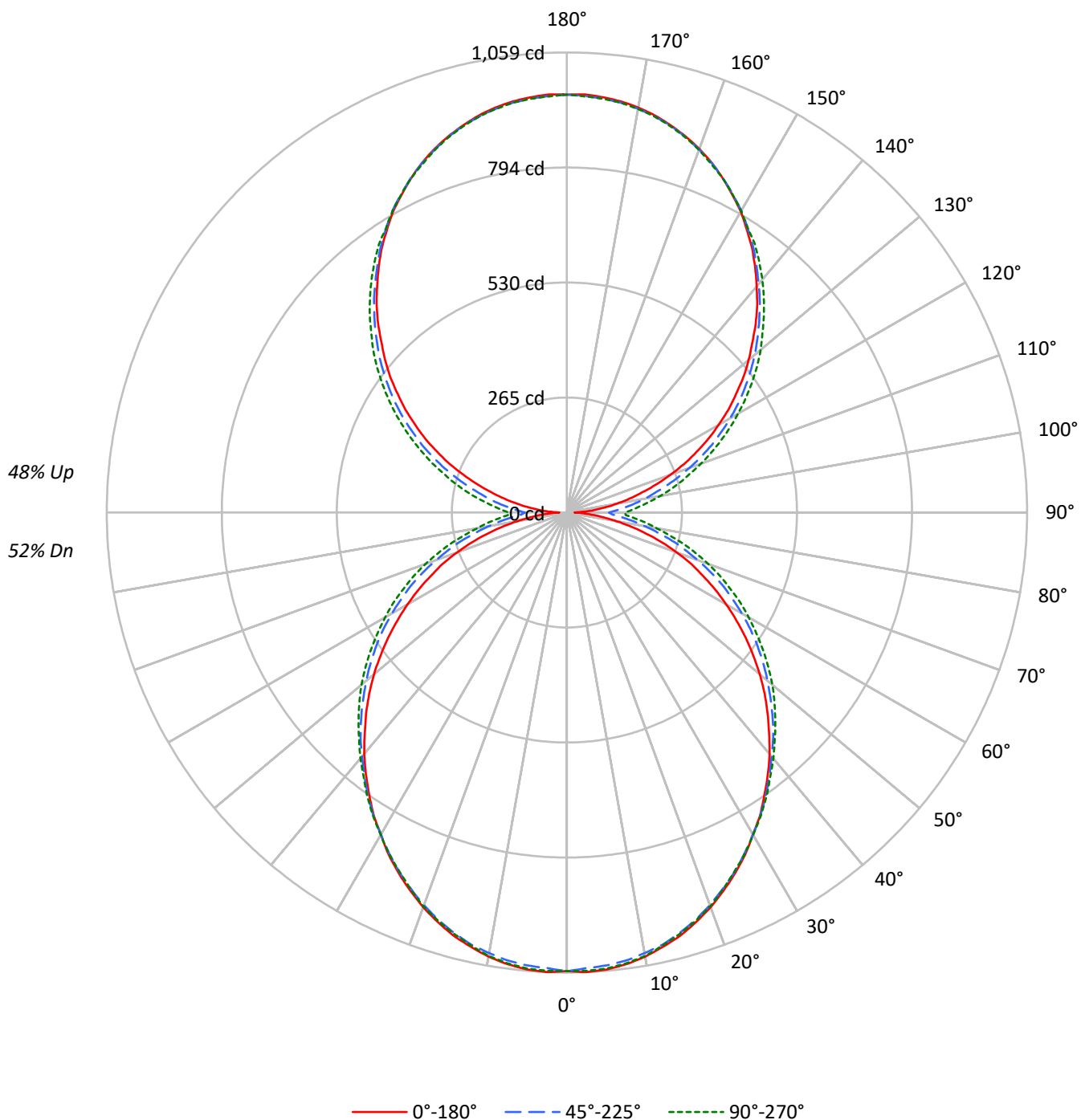
Lumens per Lamp: N/A
Luminaire Lumens: 5957.0 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58
1	97	93	89	85	90	86	82	79	73	70	68	61	59	57	50	48	47
2	88	81	74	69	81	75	69	64	63	59	55	53	50	47	43	41	39
3	80	71	63	57	74	65	59	53	56	50	46	47	43	39	38	35	33
4	73	62	54	48	67	58	50	45	49	44	39	41	37	34	34	31	28
5	67	55	47	41	62	51	44	38	44	38	34	37	32	29	30	27	24
6	62	50	41	35	57	46	39	33	40	34	29	33	29	25	28	24	21
7	57	45	37	31	53	42	34	29	36	30	26	30	26	22	25	22	19
8	53	41	33	27	49	38	31	26	33	27	23	28	23	20	23	20	17
9	49	37	29	24	46	35	28	23	30	24	20	25	21	18	21	18	15
10	46	34	27	22	43	32	25	21	28	22	18	24	19	16	20	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	1.7
10°-20°	283.6	4.8
20°-30°	421.8	7.1
30°-40°	499.5	8.4
40°-50°	516.4	8.7
50°-60°	475.7	8.0
60°-70°	384.6	6.5
70°-80°	257.3	4.3
80°-90°	134.5	2.3
90°-100°	138.9	2.3
100°-110°	245.3	4.1
110°-120°	359.2	6.0
120°-130°	445.2	7.5
130°-140°	484.6	8.1
140°-150°	467.8	7.9
150°-160°	391.4	6.6
160°-170°	260.2	4.4
170°-180°	91.1	1.5
0°-30°	805.4	13.5
0°-40°	1304.9	21.9
0°-60°	2297.1	38.6
0°-90°	3073.5	51.6
90°-120°	743.4	12.5
90°-150°	2140.9	35.9
90°-180°	2884.0	48.4
0°-180°	5957.0	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	56	97	124	134	15
95°	62	91	133	161	170	62
105°	180	200	236	261	270	192
115°	329	339	368	385	391	325
125°	475	478	500	515	519	425
135°	614	618	626	639	641	474
145°	743	745	747	752	754	464
155°	849	849	850	853	849	391
165°	923	921	922	925	921	260
175°	960	957	957	961	956	91
180°	962	962	962	962	962	

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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°	17.3	56.4	96.9	124.4	133.9
92.5°	37.0	70.7	113.6	141.7	150.5
95°	62.2	90.6	133.2	161.2	170.0
97.5°	87.3	112.9	157.5	183.8	191.7
100°	116.2	137.9	180.8	209.3	217.0
102.5°	147.4	170.7	206.6	234.8	243.2
105°	180.0	200.3	235.8	261.0	270.5
107.5°	215.6	233.9	267.6	290.6	296.8
110°	252.7	269.0	300.2	322.1	328.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	291.6	302.5	333.4	352.8	358.6
115°	328.8	339.1	367.5	385.4	390.8
117.5°	366.7	372.7	400.0	418.3	422.6
120°	402.7	409.5	434.1	451.7	454.9
122.5°	440.5	442.3	467.4	483.1	487.1
125°	474.9	478.4	499.9	515.0	519.3
127.5°	512.1	513.4	531.7	546.5	551.2
130°	545.8	548.5	564.5	578.3	581.9
132.5°	578.5	585.2	594.8	608.5	610.5
135°	614.4	617.8	625.8	639.2	641.4
137.5°	648.1	651.5	657.2	670.3	670.7
140°	679.2	682.9	686.3	699.2	699.5
142.5°	711.4	713.4	716.4	726.4	726.9
145°	742.8	744.8	747.0	752.2	754.1
147.5°	771.0	773.2	774.7	779.1	775.1
150°	800.2	799.4	802.4	802.4	801.9
152.5°	824.1	825.6	826.4	828.6	825.6
155°	848.8	848.8	849.6	852.6	848.8
157.5°	871.3	869.8	870.5	873.5	868.3
160°	890.8	888.5	889.3	892.3	888.5
162.5°	908.0	906.5	906.5	910.2	905.7
165°	922.9	921.4	922.2	925.2	920.7
167.5°	936.4	933.4	933.4	937.9	933.4
170°	946.9	943.9	943.9	948.4	943.2
172.5°	954.4	951.4	951.4	955.9	951.4
175°	959.6	956.6	956.6	961.1	955.9
177.5°	963.4	960.4	959.6	964.1	958.9
180°	961.9	961.9	961.9	961.9	961.9

(END OF REPORT)