Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P1035628

Luminaire Tested: S125DIW-B850D470UB35-4F0-XX-W2A-D

Issue Date: 5/7/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1035628
	REPORT IS A COMBINATION OF REPORTS P1004279 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/7/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S125DIW-B850D470UB35-4F0-XX-W2A-D
Description:	Define 5 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:	5217.0 lumens
Efficiency:	N/A
Efficacy:	106.3 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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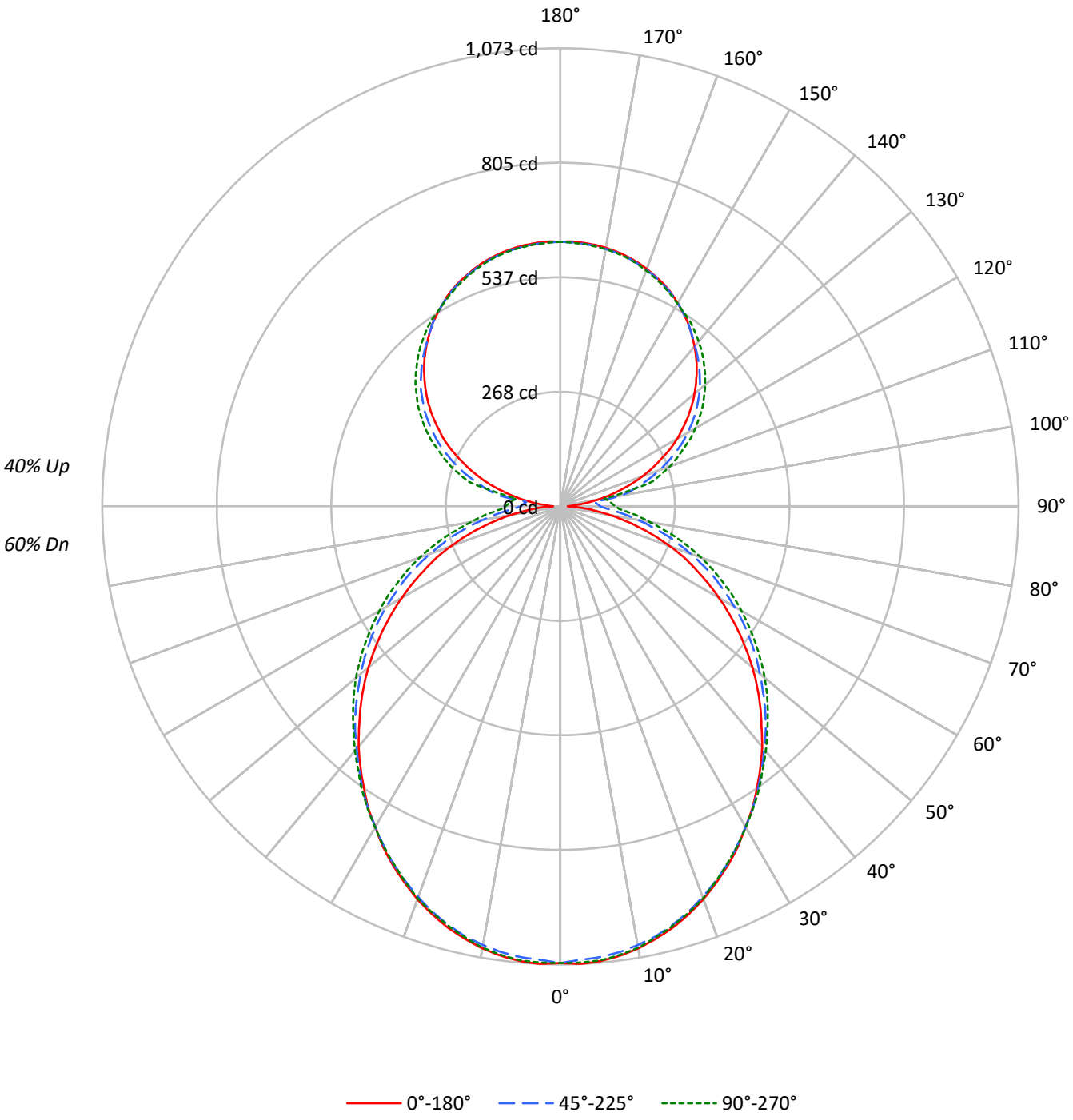
Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20			20			20			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	0
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°	6852	6852	6852
5°	6864	6708	6725
10°	6812	6571	6553
15°	6729	6412	6341
20°	6617	6220	6131
25°	6484	6016	5877
30°	6324	5793	5646
35°	6173	5587	5434
40°	6021	5370	5219
45°	5849	5183	5026
50°	5684	4978	4852
55°	5484	4784	4650
60°	5267	4563	4442
65°	5039	4329	4209
70°	4778	4017	3966
75°	4368	3707	3669
80°	3829	3332	3341
85°	3299	3033	3169

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 5849 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.2	1.9
10°-20°	287.3	5.5
20°-30°	427.2	8.2
30°-40°	505.9	9.7
40°-50°	523.1	10.0
50°-60°	481.9	9.2
60°-70°	389.5	7.5
70°-80°	260.6	5.0
80°-90°	135.6	2.6
90°-100°	96.9	1.9
100°-110°	195.8	3.8
110°-120°	289.2	5.5
120°-130°	344.4	6.6
130°-140°	356.9	6.8
140°-150°	328.1	6.3
150°-160°	263.9	5.1
160°-170°	170.7	3.3
170°-180°	58.9	1.1
0°-30°	815.7	15.6
0°-40°	1321.6	25.3
0°-60°	2326.6	44.6
0°-90°	3112.3	59.7
90°-120°	581.9	11.2
90°-150°	1611.2	30.9
90°-180°	2105.0	40.3
0°-180°	5217.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1070	1070	1070	1070	1070	
5°	1070	1067	1060	1068	1067	101
15°	1021	1022	1015	1021	1017	288
25°	928	931	925	929	924	427
35°	803	810	807	810	810	503
45°	662	673	678	686	687	511
55°	508	525	542	554	558	455
65°	350	374	400	415	419	348
75°	193	220	254	275	280	204
85°	58	92	129	152	160	60
90°	17	54	93	120	128	13
95°	40	66	84	109	116	43
105°	144	163	195	216	222	153
115°	260	269	297	314	318	258
125°	365	367	388	403	407	326
135°	452	453	460	472	475	348
145°	522	522	522	528	529	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°	*1069.5*	1069.5	1069.5	1069.5	1069.5
2.5°	*1072.6*	*1070.5*	*1063.2*	*1070.5*	*1069.5*
5°	*1069.5*	1067.4	1060.0	1068.4	1067.4
7.5°	*1062.1*	1061.1	1053.7	1061.1	1060.0
10°	*1051.6*	1051.6	1043.2	1050.6	1049.5
12.5°	*1037.0*	1038.0	1031.7	1037.0	1033.8
15°	*1021.2*	1022.3	1014.9	1021.2	1017.0
17.5°	*1001.3*	1003.4	996.1	1001.3	998.2
20°	*979.3*	981.4	974.0	977.2	977.2
22.5°	*954.1*	958.3	949.9	954.1	951.0
25°	*927.9*	931.1	924.8	929.0	923.7
27.5°	*899.6*	903.8	896.5	899.6	897.5
30°	*867.1*	873.4	867.1	869.2	868.1
32.5°	*837.7*	843.0	838.8	840.9	839.8
35°	*803.1*	810.5	807.3	810.5	810.5
37.5°	*769.6*	775.9	774.8	779.0	778.0
40°	*735.0*	743.4	742.3	746.5	748.6
42.5°	*697.2*	708.8	711.9	717.2	717.2
45°	*661.6*	673.1	678.4	685.7	686.8
47.5°	*624.9*	635.4	643.8	654.3	656.4
50°	*587.2*	598.7	610.2	621.8	624.9
52.5°	*547.3*	562.0	576.7	589.3	591.3
55°	*508.5*	525.3	542.1	553.6	557.8
57.5°	*468.7*	488.6	507.5	520.1	523.2
60°	*428.8*	449.8	470.8	486.5	489.6
62.5°	*390.0*	411.0	434.1	451.9	456.1
65°	*350.2*	374.3	399.5	415.2	419.4
67.5°	*313.5*	336.6	361.7	380.6	385.8
70°	*272.6*	296.7	324.0	343.9	350.2
72.5°	*232.8*	257.9	288.3	310.4	314.5
75°	*192.9*	220.2	253.7	274.7	279.9
77.5°	*154.1*	185.6	217.0	240.1	244.3
80°	*118.5*	149.9	185.6	208.6	212.8
82.5°	*86.0*	119.5	156.2	178.2	186.6
85°	*57.7*	92.3	129.0	152.0	160.4
87.5°	*36.7*	70.2	105.9	130.0	137.4
90°	*17.3*	54.4	93.3	119.7	128.4
92.5°	*23.4*	49.7	89.1	114.4	122.3
95°	*39.8*	65.7	83.8	109.2	116.5
97.5°	*61.7*	89.6	80.6	103.6	111.3
100°	*88.2*	111.7	147.0	100.6	105.0
102.5°	*115.2*	136.9	170.4	192.3	160.0
105°	*144.4*	163.1	194.6	215.5	222.4
107.5°	*174.7*	189.4	220.7	242.0	246.5
110°	*203.9*	216.5	246.8	265.3	273.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*232.3*	243.2	272.0	289.0	295.4
115°	*259.8*	269.4	297.2	314.2	317.8
117.5°	*288.6*	293.9	321.9	336.9	343.4
120°	*316.1*	318.9	344.3	361.2	365.2
122.5°	*339.5*	342.8	366.3	382.2	385.7
125°	*364.7*	366.8	387.8	402.8	406.6
127.5°	*388.0*	389.3	406.6	421.4	424.0
130°	*410.0*	411.3	426.5	439.8	442.7
132.5°	*431.0*	433.8	442.9	457.6	459.5
135°	*451.7*	453.4	459.8	472.5	475.1
137.5°	*471.0*	472.7	475.9	488.5	490.4
140°	*488.7*	489.6	490.3	502.7	504.2
142.5°	*505.7*	505.2	506.1	515.5	516.9
145°	*522.3*	522.2	522.2	527.8	529.3
147.5°	*536.0*	536.0	536.4	539.0	537.9
150°	*549.7*	548.8	549.7	550.6	548.0
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)