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: P1026873

Luminaire Tested: S125DIP-B375D375UB2750-4F0-XX-W2A-F_5000K

Issue Date: 5/7/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1026873
	REPORT IS A COMBINATION OF REPORTS P1001962 AND P1007351
Test Lab:	INNOVATION CENTER
Issue Date:	5/7/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S125DIP-B375D375UB2750-4F0-XX-W2A-F_5000K
Description:	Define 5 Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	2841.0 lumens
Efficiency:	N/A
Efficacy:	127.4 lumens/watt
Spacing Criteria (0/90/45):	1.2 / 1.18 / 1.3
Luminous Opening:	Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type:	General Diffuse

Input Watts (W):	22.3
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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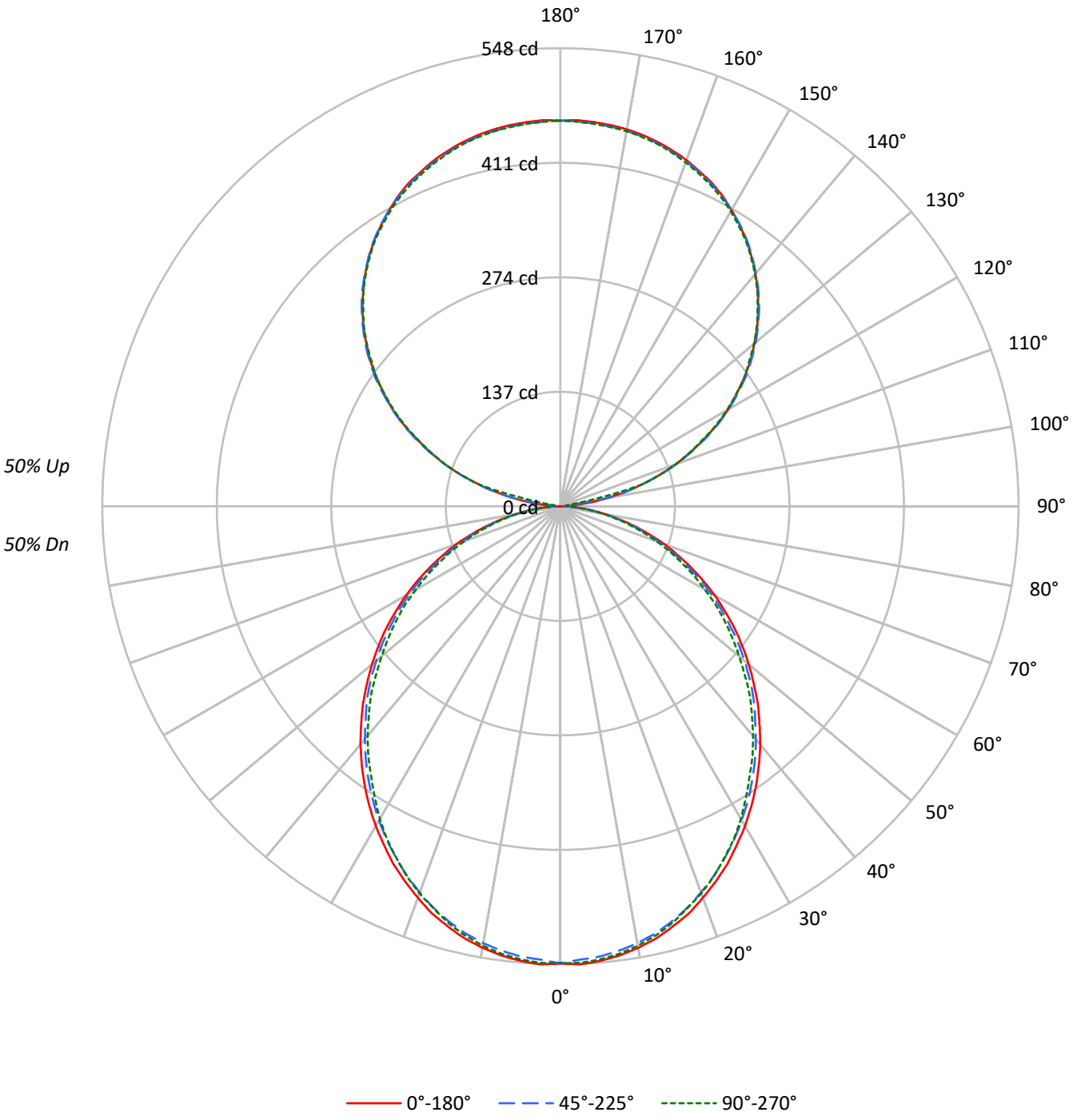
Luminous Intensity Polar Plot



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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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	89	86	90	86	83	80	73	71	68	61	59	58	50	48	47	42
2	89	82	75	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	58	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	55	49	68	59	52	46	50	45	40	42	38	35	35	32	29	26
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	43	35	30	37	31	27	31	27	23	26	22	20	17
8	54	41	34	28	50	39	32	27	33	28	24	28	24	21	24	20	18	15
9	50	38	30	25	46	35	29	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	23	43	32	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3503	3503	3503
5°	3503	3422	3428
10°	3474	3343	3333
15°	3428	3249	3221
20°	3367	3141	3091
25°	3300	3022	2953
30°	3221	2898	2808
35°	3136	2769	2645
40°	3047	2632	2500
45°	2952	2498	2346
50°	2847	2346	2166
55°	2743	2180	2001
60°	2619	2004	1809
65°	2471	1800	1611
70°	2321	1566	1382
75°	2067	1289	1117
80°	1761	962	821
85°	1361	569	452

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 2952 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.8
10°-20°	145.7	5.1
20°-30°	215.1	7.6
30°-40°	251.0	8.8
40°-50°	252.1	8.9
50°-60°	221.3	7.8
60°-70°	164.8	5.8
70°-80°	94.1	3.3
80°-90°	27.9	1.0
90°-100°	15.7	0.6
100°-110°	104.1	3.7
110°-120°	187.5	6.6
120°-130°	240.7	8.5
130°-140°	258.9	9.1
140°-150°	243.0	8.6
150°-160°	196.5	6.9
160°-170°	127.1	4.5
170°-180°	43.8	1.5
0°-30°	412.5	14.5
0°-40°	663.5	23.4
0°-60°	1136.8	40.0
0°-90°	1423.7	50.1
90°-120°	307.3	10.8
90°-150°	1049.8	37.0
90°-180°	1417.0	49.9
0°-180°	2841.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	547	547	547	547	547	
5°	546	545	541	545	544	52
15°	520	519	514	516	516	147
25°	472	470	464	465	464	217
35°	408	406	400	398	394	255
45°	334	332	327	322	320	257
55°	254	253	247	243	240	227
65°	172	171	166	162	160	170
75°	91	90	88	87	85	97
85°	24	24	24	24	23	26
90°	0	3	6	7	8	3
95°	20	18	6	7	7	24
105°	101	102	102	102	102	107
115°	189	190	191	190	187	187
125°	268	271	271	270	268	240
135°	335	337	336	336	334	258
145°	388	389	389	389	387	243
155°	428	426	426	427	424	197
165°	451	449	449	452	449	127
175°	461	459	460	462	459	44
180°	461	461	461	461	461	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*546.7*	546.7	546.7	546.7	546.7
2.5°	*548.5*	*547.2*	*542.8*	*547.2*	*546.7*
5°	*545.9*	545.0	540.7	544.6	544.1
7.5°	*542.0*	541.1	536.3	540.2	539.8
10°	*536.3*	535.5	530.7	534.2	533.8
12.5°	*529.4*	527.7	523.4	526.0	526.0
15°	*520.3*	519.0	514.3	516.5	516.5
17.5°	*510.8*	508.7	503.9	506.5	504.3
20°	*498.3*	497.4	491.8	494.8	492.7
22.5°	*485.7*	484.0	478.8	480.6	479.3
25°	*472.3*	470.2	464.5	465.4	464.1
27.5°	*456.8*	455.5	449.8	450.3	449.0
30°	*441.6*	440.3	433.8	433.0	431.7
32.5°	*425.2*	423.0	417.4	415.7	413.1
35°	*407.9*	406.2	400.1	397.9	394.5
37.5°	*390.1*	388.0	382.4	379.3	377.2
40°	*372.0*	369.8	363.8	359.9	358.6
42.5°	*352.5*	350.8	344.7	341.3	339.1
45°	*333.9*	332.2	327.0	321.8	320.5
47.5°	*313.6*	314.0	307.5	302.3	299.3
50°	*294.1*	292.8	287.6	282.0	279.0
52.5°	*274.2*	273.4	267.7	263.0	259.5
55°	*254.3*	253.0	247.0	243.1	240.1
57.5°	*233.1*	232.7	227.5	222.3	221.0
60°	*213.2*	211.5	206.8	202.4	199.4
62.5°	*192.5*	191.2	187.3	182.5	180.4
65°	*171.7*	170.9	166.1	162.2	160.5
67.5°	*151.4*	149.7	146.2	142.7	141.9
70°	*132.4*	130.2	126.3	123.7	122.0
72.5°	*111.6*	110.3	108.1	105.1	103.4
75°	*91.3*	90.4	88.2	86.9	85.2
77.5°	*72.2*	71.8	70.5	69.6	68.3
80°	*54.5*	54.5	53.6	53.2	52.3
82.5°	*38.9*	38.1	38.1	37.2	37.2
85°	*23.8*	24.2	24.2	23.8	22.9
87.5°	*11.7*	11.7	11.2	11.2	10.4
90°	*0.3*	3.1	5.5	7.2	8.2
92.5°	*6.5*	3.4	5.5	7.2	7.5
95°	*19.5*	18.5	5.5	7.2	7.2
97.5°	*36.6*	38.6	6.2	6.8	7.2
100°	*57.1*	58.1	59.5	8.6	7.2
102.5°	*78.0*	79.4	80.0	80.7	52.0
105°	*100.6*	101.9	101.9	101.9	101.6
107.5°	*123.8*	123.8	124.5	124.8	123.5
110°	*146.4*	146.4	147.1	146.0	146.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*167.6*	168.6	169.0	167.6	166.9
115°	*188.8*	190.5	190.9	189.5	187.4
117.5°	*211.0*	211.0	212.4	210.3	209.7
120°	*231.6*	231.2	232.2	231.6	229.8
122.5°	*249.7*	251.4	251.7	251.0	249.0
125°	*268.5*	270.9	270.9	269.5	268.5
127.5°	*286.6*	288.3	288.0	287.3	284.6
130°	*303.0*	304.7	305.1	304.1	302.4
132.5°	*319.5*	321.5	320.5	320.5	318.8
135°	*334.8*	336.9	336.2	335.5	333.5
137.5°	*349.2*	351.3	350.6	350.6	348.9
140°	*363.2*	363.9	363.6	364.3	362.2
142.5°	*375.9*	376.2	376.9	376.9	374.9
145°	*388.2*	388.9	388.9	389.2	387.2
147.5°	*399.1*	399.1	399.5	399.8	397.4
150°	*409.4*	408.7	409.4	410.1	407.4
152.5°	*419.3*	417.6	418.3	419.0	416.6
155°	*427.5*	425.5	426.2	427.2	424.5
157.5°	*434.0*	433.0	433.0	434.0	431.3
160°	*440.9*	438.8	439.2	440.5	437.8
162.5°	*446.3*	444.3	444.6	446.7	443.6
165°	*451.1*	449.1	449.4	451.5	448.7
167.5°	*454.9*	452.8	453.2	455.6	452.5
170°	*458.0*	455.6	455.9	458.7	455.6
172.5°	*460.0*	457.6	458.3	460.7	457.6
175°	*461.4*	459.3	459.7	462.4	459.3
177.5°	*462.4*	460.4	460.7	463.1	460.4
180°	*461.4*	461.4	461.4	461.4	461.4

(END OF REPORT)