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: P1037981

Luminaire Tested: S125DS-B1270DB35-4F0-XX-W2A-D

Issue Date: 5/2/2025

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Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P1037981
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-17)
Test Lab:	INNOVATION CENTER
Issue Date:	5/2/2025
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	NEO-RAY
Catalog Number:	S125DS-B1270DB35-4F0-XX-W2A-D
Description:	Define 5 Direct Surface with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	4959.0 lumens
Efficiency:	N/A
Efficacy:	80.9 lumens/watt
Spacing Criteria (0/90/45):	1.21 / 1.21 / 1.34
Luminous Opening:	Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type:	Direct

Input Watts (W):	61.3
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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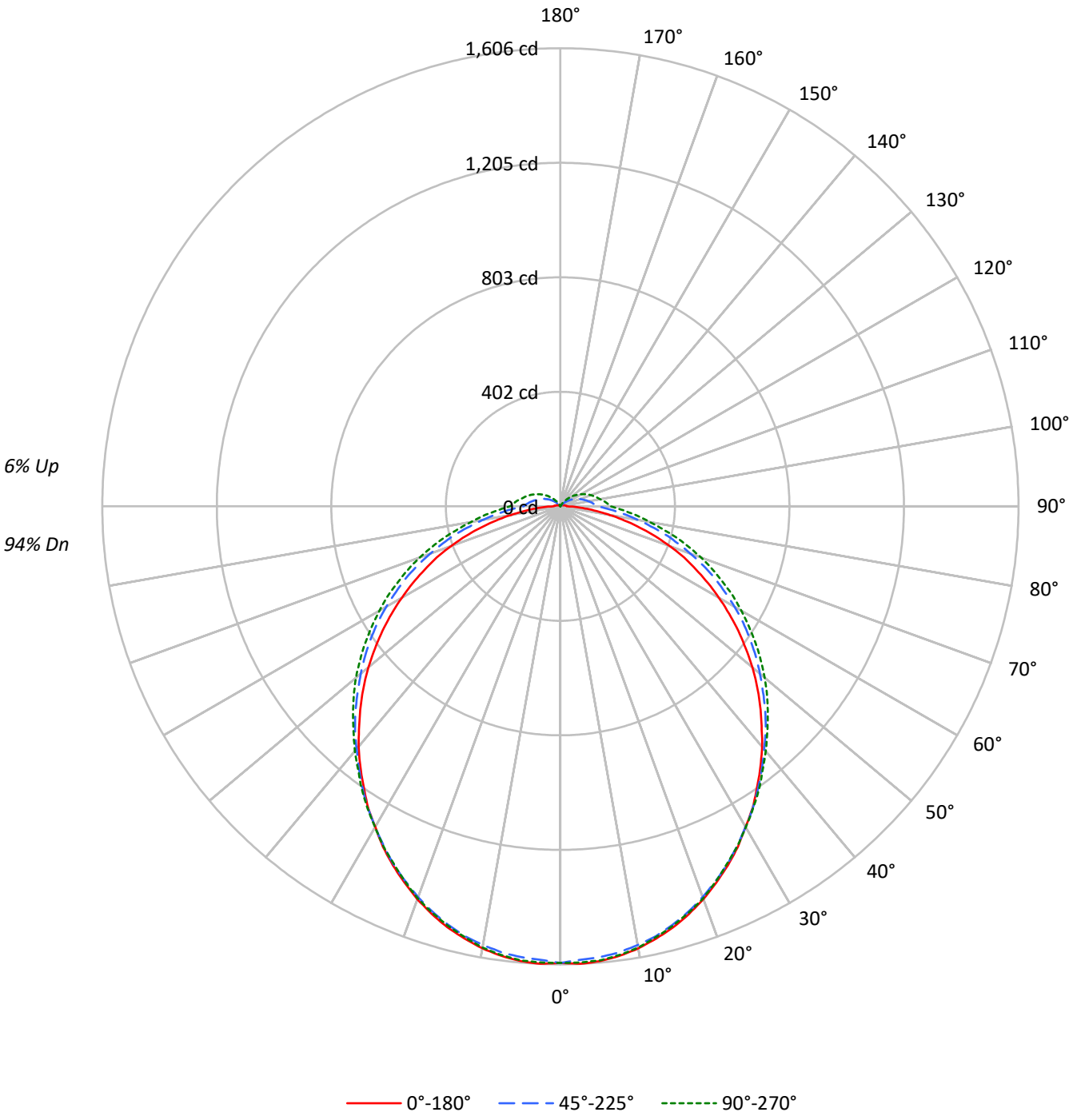
Luminous Intensity Polar Plot



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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	88	80	74	93	85	78	73	81	75	70	76	72	68	72	69	65	63
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	55	50	60	53	48	57	51	47	45
5	74	60	51	44	71	59	50	44	56	49	43	53	47	42	51	45	41	39
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	37	33	42	36	32	30
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10296	10205	10276
10°	10241	10160	10221
15°	10139	10077	10098
20°	9994	9941	9973
25°	9819	9786	9775
30°	9602	9602	9614
35°	9403	9452	9489
40°	9202	9293	9373
45°	8973	9201	9315
50°	8761	9104	9324
55°	8503	9064	9326
60°	8225	9030	9392
65°	7947	9064	9518
70°	7643	9084	9820
75°	7149	9402	10372
80°	6542	10250	11755
85°	6344	14188	17651

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 87.5°
Luminance: 30200 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	3.1
10°-20°	430.0	8.7
20°-30°	639.5	12.9
30°-40°	757.3	15.3
40°-50°	782.9	15.8
50°-60°	721.2	14.5
60°-70°	583.0	11.8
70°-80°	390.1	7.9
80°-90°	201.6	4.1
90°-100°	113.6	2.3
100°-110°	83.7	1.7
110°-120°	56.0	1.1
120°-130°	31.7	0.6
130°-140°	13.9	0.3
140°-150°	2.7	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1221.0	24.6
0°-40°	1978.3	39.9
0°-60°	3482.4	70.2
0°-90°	4657.2	93.9
90°-120°	253.3	5.1
90°-150°	301.7	6.1
90°-180°	302.0	6.1
0°-180°	4959.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1601	1601	1601	1601	1601	
5°	1601	1598	1587	1599	1598	152
15°	1529	1530	1519	1529	1522	431
25°	1389	1394	1384	1390	1383	639
35°	1202	1213	1208	1213	1213	753
45°	990	1008	1015	1026	1028	764
55°	761	786	811	829	835	680
65°	524	560	598	622	628	520
75°	289	330	380	411	419	306
85°	86	138	193	228	240	90
90°	25	75	129	165	176	17
95°	20	61	115	149	160	16
105°	14	39	86	118	129	15
115°	9	20	61	90	99	9
125°	6	5	36	61	69	5
135°	3	2	13	33	41	2
145°	2	0	0	8	14	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*1600.8*	1600.8	1600.8	1600.8	1600.8
2.5°	*1605.5*	*1602.4*	*1591.4*	*1602.4*	*1600.8*
5°	*1600.8*	1597.7	1586.7	1599.2	1597.7
7.5°	*1589.8*	1588.2	1577.3	1588.2	1586.7
10°	*1574.1*	1574.1	1561.6	1572.6	1571.0
12.5°	*1552.1*	1553.7	1544.3	1552.1	1547.4
15°	*1528.6*	1530.2	1519.2	1528.6	1522.3
17.5°	*1498.8*	1501.9	1490.9	1498.8	1494.1
20°	*1465.8*	1469.0	1458.0	1462.7	1462.7
22.5°	*1428.2*	1434.4	1421.9	1428.2	1423.5
25°	*1388.9*	1393.6	1384.2	1390.5	1382.7
27.5°	*1346.6*	1352.8	1341.8	1346.6	1343.4
30°	*1297.9*	1307.3	1297.9	1301.0	1299.5
32.5°	*1254.0*	1261.8	1255.5	1258.7	1257.1
35°	*1202.2*	1213.2	1208.4	1213.2	1213.2
37.5°	*1151.9*	1161.4	1159.8	1166.1	1164.5
40°	*1100.2*	1112.7	1111.1	1117.4	1120.6
42.5°	*1043.7*	1060.9	1065.6	1073.5	1073.5
45°	*990.3*	1007.6	1015.4	1026.4	1028.0
47.5°	*935.4*	951.1	963.6	979.3	982.5
50°	*878.9*	896.1	913.4	930.7	935.4
52.5°	*819.2*	841.2	863.2	882.0	885.1
55°	*761.2*	786.3	811.4	828.6	834.9
57.5°	*701.5*	731.3	759.6	778.4	783.1
60°	*641.9*	673.3	704.7	728.2	732.9
62.5°	*583.8*	615.2	649.7	676.4	682.7
65°	*524.2*	560.3	597.9	621.5	627.8
67.5°	*469.3*	503.8	541.4	569.7	577.5
70°	*408.0*	444.1	484.9	514.8	524.2
72.5°	*348.4*	386.1	431.6	464.5	470.8
75°	*288.8*	329.6	379.8	411.2	419.0
77.5°	*230.7*	277.8	324.9	359.4	365.7
80°	*177.3*	224.4	277.8	312.3	318.6
82.5°	*128.7*	178.9	233.8	266.8	279.4
85°	*86.3*	138.1	193.0	227.6	240.1
87.5°	*54.9*	105.2	158.5	194.6	205.6
90°	*25.1*	75.3	128.7	164.8	175.8
92.5°	*22.0*	67.5	122.4	156.9	167.9
95°	*20.4*	61.2	114.6	149.1	160.1
97.5°	*18.8*	56.5	108.3	141.2	152.2
100°	*17.3*	50.2	100.4	133.4	142.8
102.5°	*15.7*	45.5	94.2	125.6	135.0
105°	*14.1*	39.2	86.3	117.7	128.7
107.5°	*12.6*	34.5	80.0	111.4	120.8
110°	*11.0*	29.8	73.8	103.6	114.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	*11.0*	25.1	67.5	95.7	106.7
115°	*9.4*	20.4	61.2	89.5	98.9
117.5°	*7.8*	15.7	54.9	81.6	92.6
120°	*7.8*	12.6	48.7	75.3	84.7
122.5°	*6.3*	7.8	42.4	67.5	76.9
125°	*6.3*	4.7	36.1	61.2	69.1
127.5°	*4.7*	3.1	29.8	53.4	62.8
130°	*4.7*	3.1	25.1	47.1	54.9
132.5°	*3.1*	3.1	18.8	40.8	47.1
135°	*3.1*	1.6	12.6	33.0	40.8
137.5°	*3.1*	1.6	7.8	26.7	33.0
140°	*1.6*	1.6	3.1	20.4	26.7
142.5°	*1.6*	0.0	0.0	14.1	20.4
145°	*1.6*	0.0	0.0	7.8	14.1
147.5°	*0.0*	0.0	0.0	3.1	6.3
150°	*0.0*	0.0	0.0	0.0	1.6
152.5°	*0.0*	0.0	0.0	0.0	0.0
155°	*0.0*	0.0	0.0	0.0	0.0
157.5°	*0.0*	0.0	0.0	0.0	0.0
160°	*0.0*	0.0	0.0	0.0	0.0
162.5°	*0.0*	0.0	0.0	0.0	0.0
165°	*0.0*	0.0	0.0	0.0	0.0
167.5°	*0.0*	0.0	0.0	0.0	0.0
170°	*0.0*	0.0	0.0	0.0	0.0
172.5°	*0.0*	0.0	0.0	0.0	0.0
175°	*0.0*	0.0	0.0	0.0	0.0
177.5°	*0.0*	0.0	0.0	0.0	0.0
180°	*0.0*	0.0	0.0	0.0	0.0

(END OF REPORT)