

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: P1034442

Luminaire Tested: S125DIW-B1270D470UB2750-4F0-XX-W2A-D_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034442
REPORT IS A COMBINATION OF REPORTS P1003267 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D470UB2750-4F0-XX-W2A-D_3500K
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

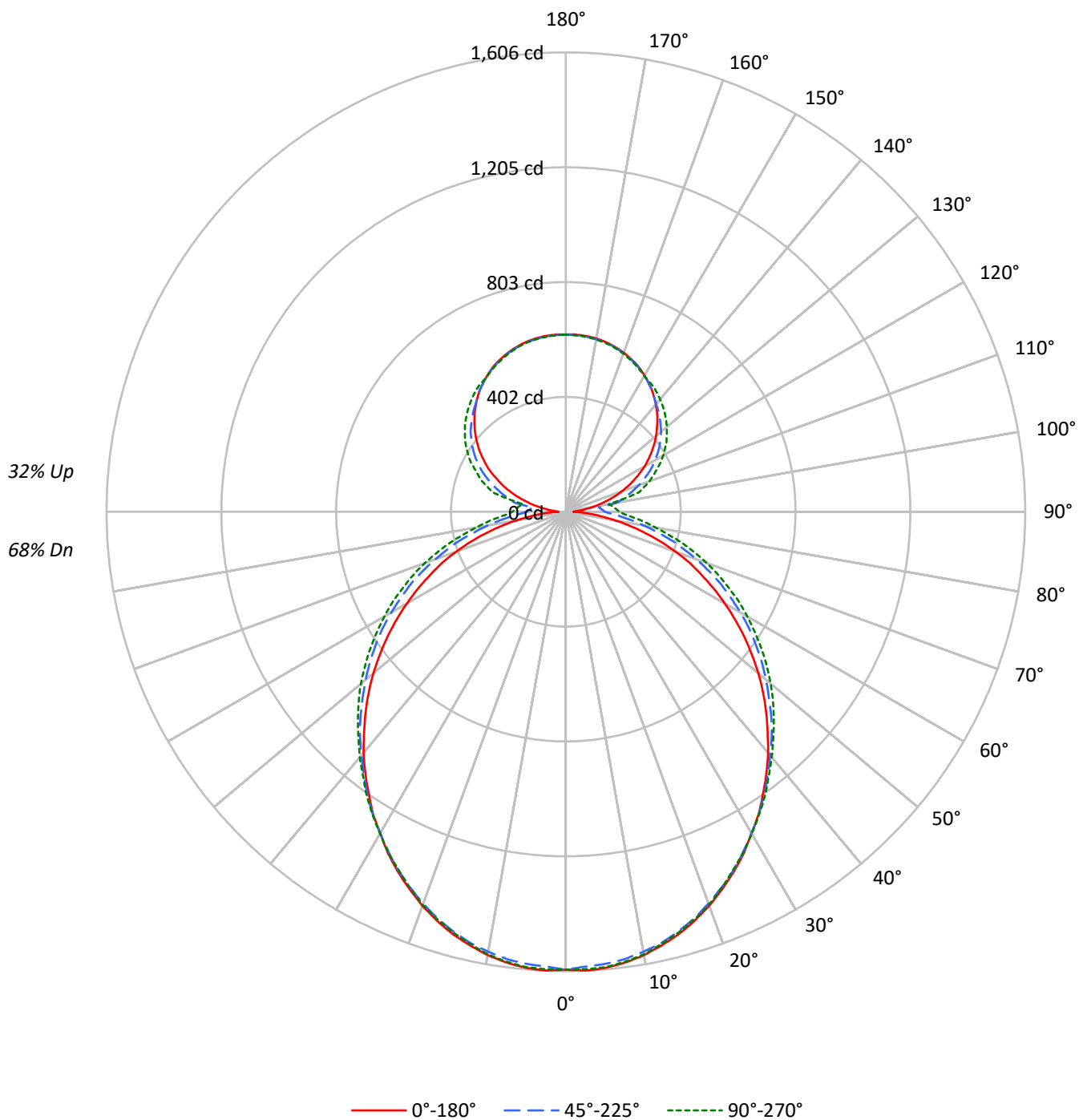
Lumens per Lamp: N/A
Luminaire Lumens: 6863.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	111	111	111	111	105	105	105	105	93	93	93	82	82	82	73	73	73	68		
1	101	96	92	88	95	91	87	83	80	77	75	71	69	67	63	61	59	55		
2	91	83	76	71	86	79	73	67	70	65	61	62	58	55	54	52	49	45		
3	83	73	65	59	78	69	62	56	61	56	51	54	50	46	48	44	41	38		
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	43	39	35	32		
5	70	57	49	42	65	54	46	41	49	42	37	43	38	34	38	34	31	28		
6	64	51	43	37	60	49	41	35	44	37	32	39	34	30	35	30	27	24		
7	59	46	38	32	56	44	36	31	40	33	29	36	30	26	32	27	24	22		
8	55	42	34	28	52	40	33	27	36	30	25	33	27	23	29	25	21	19		
9	51	39	31	25	48	37	30	25	33	27	23	30	25	21	27	23	19	17		
10	48	36	28	23	45	34	27	22	31	25	21	28	23	19	25	21	18	16		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10256	10256	10256
5°	10273	10042	10066
10°	10196	9837	9809
15°	10072	9599	9492
20°	9904	9311	9178
25°	9706	9004	8798
30°	9466	8671	8452
35°	9241	8362	8133
40°	9013	8038	7812
45°	8754	7757	7523
50°	8507	7452	7263
55°	8210	7161	6960
60°	7884	6830	6649
65°	7543	6479	6301
70°	7152	6011	5936
75°	6539	5549	5492
80°	5729	4988	5002
85°	4934	4538	4743

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8754 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	2.2
10°-20°	430.0	6.3
20°-30°	639.5	9.3
30°-40°	757.3	11.0
40°-50°	782.9	11.4
50°-60°	721.2	10.5
60°-70°	583.0	8.5
70°-80°	390.1	5.7
80°-90°	202.6	3.0
90°-100°	134.6	2.0
100°-110°	223.6	3.3
110°-120°	307.8	4.5
120°-130°	354.9	5.2
130°-140°	361.5	5.3
140°-150°	329.0	4.8
150°-160°	263.9	3.8
160°-170°	170.7	2.5
170°-180°	58.9	0.9
0°-30°	1221.0	17.8
0°-40°	1978.3	28.8
0°-60°	3482.4	50.7
0°-90°	4658.2	67.9
90°-120°	666.0	9.7
90°-150°	1711.4	24.9
90°-180°	2205.0	32.1
0°-180°	6863.0	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°	26	79	136	174	187	19
95°	47	86	122	159	170	48
105°	149	176	223	255	265	158
115°	263	276	318	344	351	261
125°	367	368	400	423	430	327
135°	453	454	464	484	489	349
145°	523	522	522	530	534	327
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°	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°	25.6	79.4	136.0	174.4	186.8
92.5°	30.7	72.1	129.7	166.5	178.0
95°	46.6	86.0	121.9	158.7	169.7
97.5°	67.9	108.4	116.6	150.4	161.8
100°	94.0	128.3	180.3	144.9	152.4
102.5°	120.4	152.0	201.7	234.0	204.8
105°	149.1	176.1	223.2	254.6	265.1
107.5°	178.9	200.8	247.2	279.0	286.6
110°	207.6	226.4	271.3	299.7	311.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	251.5	294.4	320.7	330.8
115°	262.9	276.2	317.5	343.9	350.6
117.5°	291.2	299.1	340.1	364.0	374.1
120°	318.7	323.1	360.5	386.2	393.3
122.5°	341.6	345.4	380.4	404.6	411.2
125°	366.8	368.4	399.8	423.1	429.6
127.5°	389.6	390.3	416.5	439.2	444.9
130°	411.6	412.3	434.8	455.4	460.9
132.5°	432.0	434.8	449.1	471.1	475.1
135°	452.7	454.0	464.0	483.5	488.6
137.5°	472.0	473.3	478.5	497.4	501.4
140°	489.3	490.2	491.3	509.5	513.1
142.5°	506.3	505.2	506.1	520.2	523.7
145°	522.9	522.2	522.2	530.4	534.0
147.5°	536.0	536.0	536.4	540.0	540.0
150°	549.7	548.8	549.7	550.6	548.6
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)