

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: P1034440

Luminaire Tested: S125DIW-B1270D470UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034440
REPORT IS A COMBINATION OF REPORTS P1003265 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_2700K
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

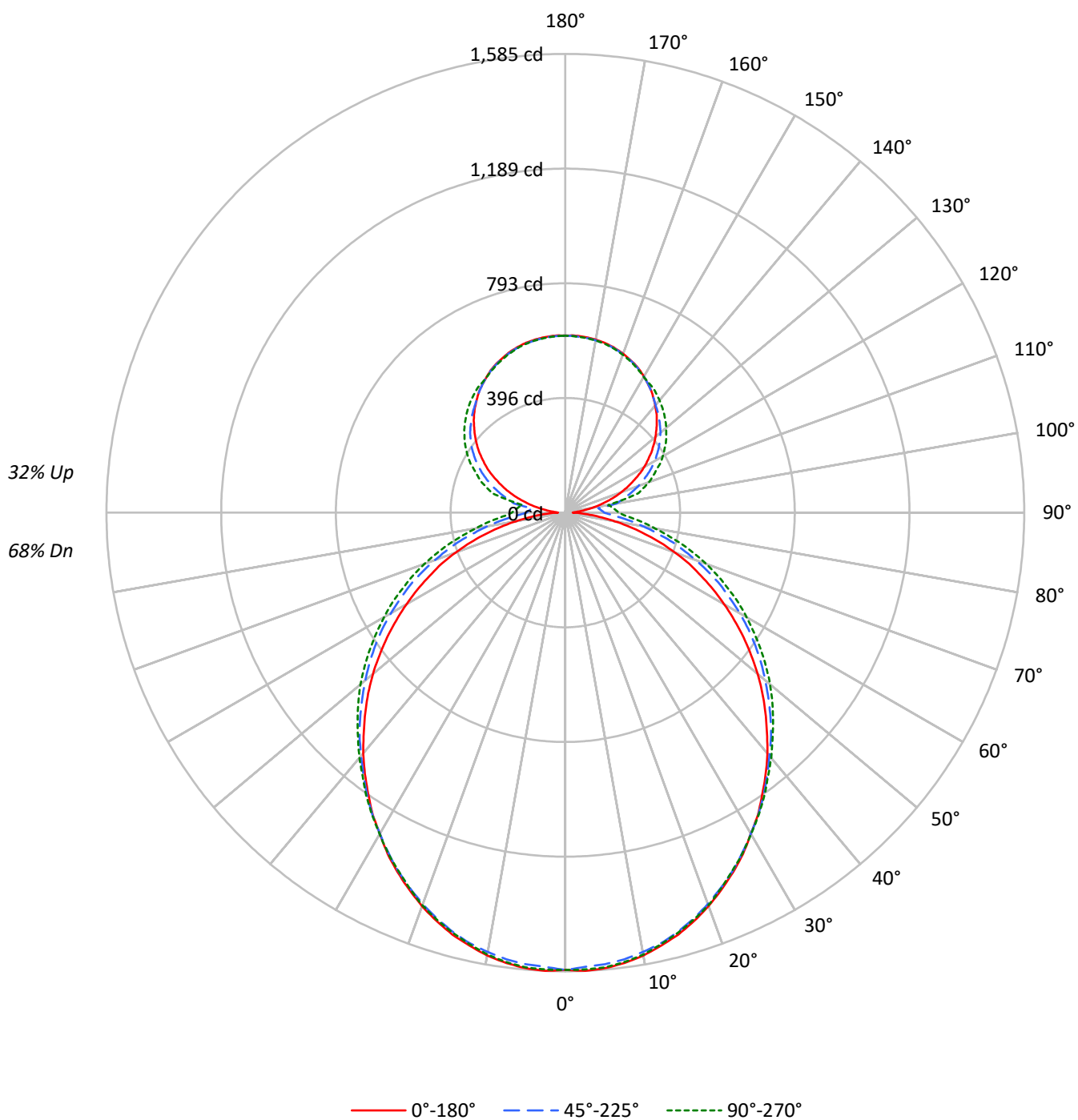
Lumens per Lamp: N/A
Luminaire Lumens: 6774.9 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
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°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	2.2
10°-20°	424.5	6.3
20°-30°	631.2	9.3
30°-40°	747.5	11.0
40°-50°	772.8	11.4
50°-60°	711.9	10.5
60°-70°	575.5	8.5
70°-80°	385.1	5.7
80°-90°	200.0	3.0
90°-100°	132.9	2.0
100°-110°	220.7	3.3
110°-120°	303.9	4.5
120°-130°	350.4	5.2
130°-140°	356.9	5.3
140°-150°	324.8	4.8
150°-160°	260.6	3.8
160°-170°	168.5	2.5
170°-180°	58.1	0.9
0°-30°	1205.2	17.8
0°-40°	1952.7	28.8
0°-60°	3437.5	50.7
0°-90°	4598.1	67.9
90°-120°	657.5	9.7
90°-150°	1689.7	24.9
90°-180°	2177.0	32.1
0°-180°	6774.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	25	78	134	172	184	19
95°	46	85	120	157	168	47
105°	147	174	220	251	262	156
115°	260	273	313	340	346	257
125°	362	364	395	418	424	323
135°	447	448	458	477	482	345
145°	516	516	516	524	527	323
155°	567	564	565	566	563	261
165°	598	595	596	599	595	169
175°	612	609	610	613	609	58
180°	612	612	612	612	612	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	25.3	78.5	134.3	172.2	184.4
92.5°	30.3	71.1	128.1	164.4	175.8
95°	45.9	84.9	120.4	156.7	167.5
97.5°	67.1	107.0	115.1	148.5	159.8
100°	92.7	126.7	178.0	143.0	150.5
102.5°	118.9	150.1	199.0	230.9	202.1
105°	147.2	173.8	220.3	251.3	261.7
107.5°	176.6	198.3	244.1	275.5	283.0
110°	204.9	223.5	267.8	295.8	307.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	233.0	248.4	290.6	316.7	326.6
115°	259.6	272.7	313.4	339.5	346.1
117.5°	287.5	295.3	335.8	359.5	369.4
120°	314.7	318.9	355.9	381.4	388.4
122.5°	337.2	341.0	375.6	399.4	406.0
125°	362.2	363.7	394.7	417.7	424.2
127.5°	384.6	385.4	411.2	433.6	439.3
130°	406.4	407.1	429.3	449.6	455.1
132.5°	426.6	429.4	443.5	465.2	469.1
135°	447.0	448.2	458.2	477.4	482.4
137.5°	466.1	467.2	472.5	491.1	495.0
140°	483.1	484.0	485.1	503.0	506.5
142.5°	499.9	498.8	499.7	513.6	517.1
145°	516.2	515.6	515.6	523.7	527.2
147.5°	529.2	529.2	529.6	533.2	533.1
150°	542.8	541.9	542.8	543.7	541.6
152.5°	555.9	553.7	554.6	555.5	552.3
155°	566.8	564.1	565.0	566.4	562.8
157.5°	575.4	574.1	574.1	575.4	571.8
160°	584.5	581.8	582.3	584.1	580.4
162.5°	591.8	589.1	589.5	592.2	588.1
165°	598.1	595.4	595.9	598.6	594.9
167.5°	603.1	600.4	600.8	604.0	599.9
170°	607.2	604.0	604.5	608.1	604.0
172.5°	609.9	606.7	607.6	610.8	606.7
175°	611.7	609.0	609.5	613.1	609.0
177.5°	613.1	610.4	610.8	614.0	610.4
180°	611.7	611.7	611.7	611.7	611.7

(END OF REPORT)