

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: P1035028

Luminaire Tested: S125DIW-B1090D470UB27-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035028
REPORT IS A COMBINATION OF REPORTS P1002920 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D470UB27-4F0-XX-W2A-D
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

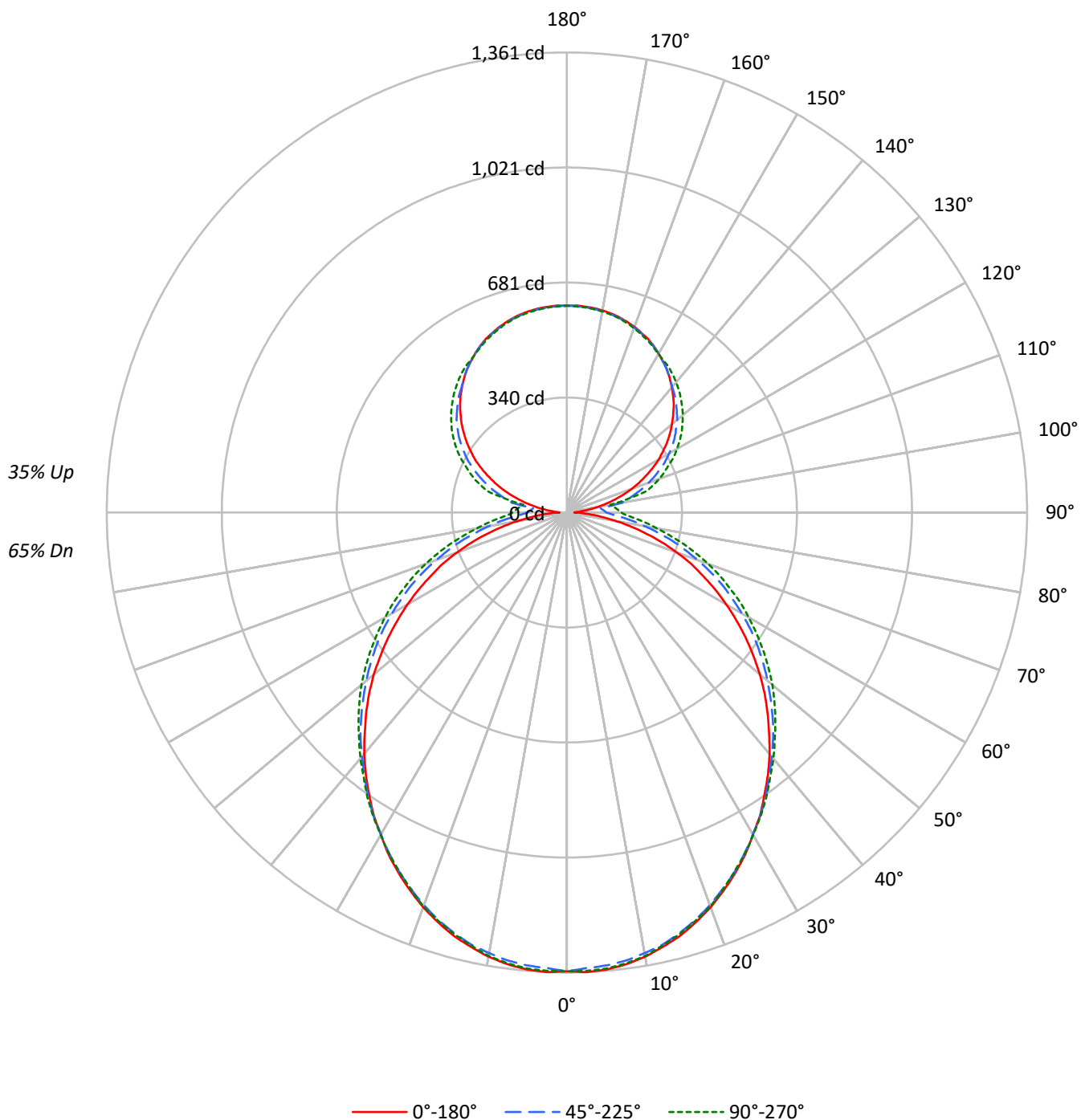
Lumens per Lamp: N/A
Luminaire Lumens: 6084.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
Input Voltage (V):
Input Current (A_{in}): 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
RCR																	
0	111	111	111	111	104	104	104	104	92	92	92	80	80	80	70	70	70
1	100	95	91	87	94	90	86	82	79	76	73	69	67	65	60	59	57
2	91	83	76	70	85	78	72	67	69	64	60	60	57	54	52	50	47
3	83	72	65	58	77	68	61	55	60	55	50	53	49	45	46	43	40
4	76	64	56	49	71	60	53	47	53	47	42	47	42	38	41	37	34
5	69	57	48	42	65	54	46	40	48	41	37	42	37	33	37	33	30
6	64	51	43	36	60	48	41	35	43	37	32	38	33	29	33	29	26
7	59	46	38	32	55	44	36	31	39	33	28	35	29	26	31	26	23
8	55	42	34	28	51	40	32	27	36	29	25	32	27	23	28	24	21
9	51	38	31	25	48	36	29	24	33	27	22	29	24	20	26	22	19
10	48	35	28	23	45	33	27	22	30	24	20	27	22	19	24	20	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8695	8695	8695
5°	8709	8513	8533
10°	8644	8339	8315
15°	8539	8137	8047
20°	8397	7893	7780
25°	8228	7634	7458
30°	8024	7351	7165
35°	7834	7090	6895
40°	7641	6815	6623
45°	7421	6576	6378
50°	7212	6317	6157
55°	6960	6071	5900
60°	6684	5790	5637
65°	6394	5493	5341
70°	6063	5096	5033
75°	5543	4705	4656
80°	4857	4228	4240
85°	4185	3847	4022

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7421 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.4	2.1
10°-20°	364.6	6.0
20°-30°	542.1	8.9
30°-40°	642.0	10.6
40°-50°	663.7	10.9
50°-60°	611.4	10.0
60°-70°	494.3	8.1
70°-80°	330.7	5.4
80°-90°	171.9	2.8
90°-100°	117.1	1.9
100°-110°	209.0	3.4
110°-120°	296.1	4.9
120°-130°	346.0	5.7
130°-140°	355.0	5.8
140°-150°	324.5	5.3
150°-160°	260.6	4.3
160°-170°	168.5	2.8
170°-180°	58.1	1.0
0°-30°	1035.1	17.0
0°-40°	1677.1	27.6
0°-60°	2952.3	48.5
0°-90°	3949.1	64.9
90°-120°	622.2	10.2
90°-150°	1647.7	27.1
90°-180°	2135.0	35.1
0°-180°	6084.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1357	1357	1357	1357	1357	
5°	1357	1354	1345	1356	1354	129
15°	1296	1297	1288	1296	1291	365
25°	1178	1182	1174	1179	1172	542
35°	1019	1028	1024	1028	1028	638
45°	840	854	861	870	872	648
55°	645	667	688	702	708	577
65°	444	475	507	527	532	441
75°	245	279	322	349	355	259
85°	73	117	164	193	204	76
90°	22	68	116	149	160	16
95°	43	76	104	136	145	45
105°	145	168	208	235	244	154
115°	258	270	305	327	332	256
125°	361	363	390	409	414	322
135°	447	448	456	473	477	344
145°	516	516	516	523	525	322
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°	1357.1	1357.1	1357.1	1357.1	1357.1
2.5°	1361.1	1358.4	1349.1	1358.4	1357.1
5°	1357.1	1354.4	1345.1	1355.8	1354.4
7.5°	1347.8	1346.4	1337.1	1346.4	1345.1
10°	1334.5	1334.5	1323.8	1333.1	1331.8
12.5°	1315.8	1317.2	1309.2	1315.8	1311.8
15°	1295.9	1297.2	1287.9	1295.9	1290.6
17.5°	1270.6	1273.3	1263.9	1270.6	1266.6
20°	1242.7	1245.3	1236.0	1240.0	1240.0
22.5°	1210.7	1216.1	1205.4	1210.7	1206.7
25°	1177.5	1181.5	1173.5	1178.8	1172.1
27.5°	1141.5	1146.9	1137.6	1141.5	1138.9
30°	1100.3	1108.3	1100.3	1103.0	1101.6
32.5°	1063.0	1069.7	1064.4	1067.0	1065.7
35°	1019.1	1028.5	1024.5	1028.5	1028.5
37.5°	976.6	984.5	983.2	988.5	987.2
40°	932.7	943.3	942.0	947.3	950.0
42.5°	884.8	899.4	903.4	910.0	910.0
45°	839.5	854.2	860.8	870.1	871.5
47.5°	793.0	806.3	816.9	830.2	832.9
50°	745.1	759.7	774.3	789.0	793.0
52.5°	694.5	713.1	731.8	747.7	750.4
55°	645.3	666.6	687.9	702.5	707.8
57.5°	594.7	620.0	643.9	659.9	663.9
60°	544.2	570.8	597.4	617.3	621.3
62.5°	494.9	521.5	550.8	573.4	578.8
65°	444.4	475.0	506.9	526.9	532.2
67.5°	397.8	427.1	459.0	483.0	489.6
70°	345.9	376.5	411.1	436.4	444.4
72.5°	295.4	327.3	365.9	393.8	399.1
75°	244.8	279.4	322.0	348.6	355.2
77.5°	195.6	235.5	275.4	304.7	310.0
80°	150.3	190.3	235.5	264.8	270.1
82.5°	109.1	151.7	198.2	226.2	236.8
85°	73.2	117.1	163.6	192.9	203.6
87.5°	46.6	89.1	134.4	165.0	174.3
90°	21.8	68.0	116.4	149.2	159.9
92.5°	27.2	61.7	111.1	142.5	152.4
95°	43.1	76.4	104.4	135.9	145.2
97.5°	64.5	99.1	100.0	128.8	138.6
100°	90.3	119.7	164.1	124.4	130.6
102.5°	116.7	143.8	185.9	213.4	183.3
105°	145.3	168.4	208.3	234.9	243.8
107.5°	174.8	193.5	233.0	260.0	266.1
110°	203.4	219.4	257.5	281.4	291.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	231.5	244.9	281.2	303.4	311.8
115°	258.3	269.9	304.9	327.0	332.3
117.5°	286.5	293.1	328.2	348.1	356.5
120°	313.7	317.1	349.1	370.9	376.5
122.5°	336.3	340.0	369.7	390.0	395.3
125°	361.3	363.1	389.7	409.2	414.5
127.5°	384.0	385.0	407.1	426.1	430.5
130°	405.8	406.7	425.8	443.0	447.5
132.5°	426.2	429.0	440.9	459.5	462.5
135°	446.6	448.0	456.4	472.8	476.7
137.5°	465.7	467.0	471.5	487.4	490.4
140°	482.9	483.8	484.7	500.2	502.8
142.5°	499.7	498.8	499.7	511.7	514.3
145°	516.0	515.6	515.6	522.7	525.3
147.5°	529.2	529.2	529.6	532.8	532.2
150°	542.8	541.9	542.8	543.7	541.4
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)