

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: P1035029

Luminaire Tested: S125DIW-B1090D470UB27-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035029
REPORT IS A COMBINATION OF REPORTS P1002921 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-D1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

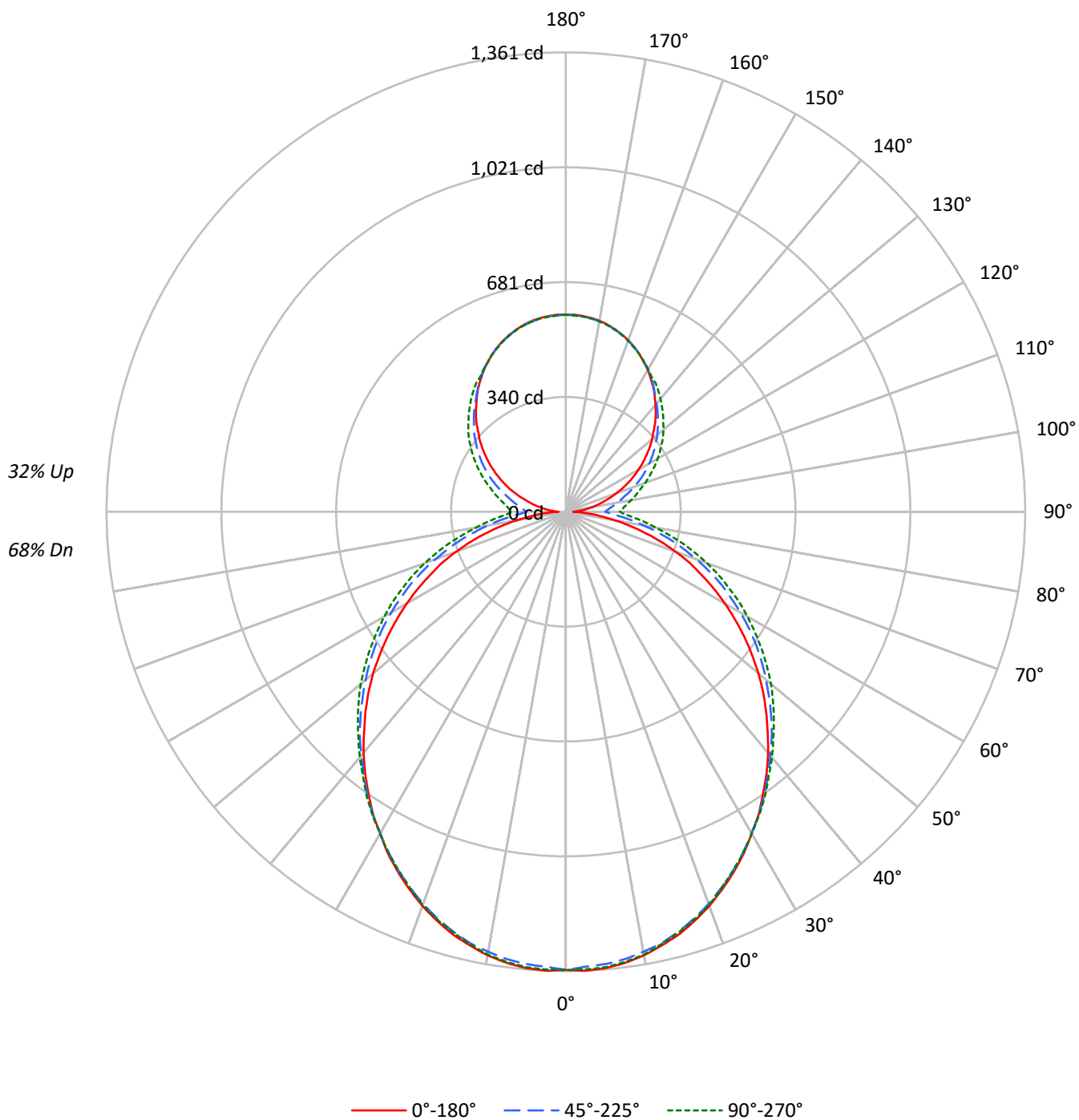
Lumens per Lamp: N/A
Luminaire Lumens: 5834.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
Input Voltage (V):
Input Current (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	72	72	72	62	62	62
1	101	96	91	88	95	90	87	83	80	77	75	71	69	67	62	61	59	55	54	53
2	91	83	76	71	86	79	73	67	70	65	61	62	58	55	54	52	49	45	44	43
3	83	73	65	59	78	69	62	56	61	56	51	54	50	46	48	44	41	38	37	36
4	76	64	56	49	71	61	53	47	54	48	43	48	43	39	43	39	35	32	31	30
5	70	57	49	42	65	54	46	41	49	42	37	43	38	34	38	34	31	28	27	26
6	64	51	43	37	60	49	41	35	44	37	32	39	34	30	35	30	27	24	23	22
7	59	46	38	32	56	44	36	31	40	33	29	36	30	26	32	27	24	21	20	19
8	55	42	34	28	52	40	33	27	36	30	25	33	27	23	29	25	21	19	18	17
9	51	39	31	25	48	37	30	25	33	27	23	30	25	21	27	22	19	17	16	15
10	48	35	28	23	45	34	27	22	31	25	21	28	23	19	25	21	18	16	15	14

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	2.2
10°-20°	364.6	6.2
20°-30°	542.1	9.3
30°-40°	642.0	11.0
40°-50°	663.7	11.4
50°-60°	611.4	10.5
60°-70°	494.3	8.5
70°-80°	330.7	5.7
80°-90°	171.9	2.9
90°-100°	135.1	2.3
100°-110°	186.3	3.2
110°-120°	243.1	4.2
120°-130°	284.4	4.9
130°-140°	300.3	5.1
140°-150°	285.1	4.9
150°-160°	237.5	4.1
160°-170°	157.9	2.7
170°-180°	55.3	0.9
0°-30°	1035.1	17.7
0°-40°	1677.1	28.7
0°-60°	2952.3	50.6
0°-90°	3949.1	67.7
90°-120°	564.5	9.7
90°-150°	1434.2	24.6
90°-180°	1885.0	32.3
0°-180°	5834.0	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	17
95°	47	82	132	165	175	44
105°	116	139	182	211	222	123
115°	204	215	250	274	281	202
125°	291	292	320	340	346	260
135°	374	376	385	403	408	289
145°	452	452	453	460	464	282
155°	515	515	516	517	515	237
165°	560	559	560	562	559	158
175°	582	580	580	583	580	55
180°	584	584	584	584	584	

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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°	32.2	73.1	123.8	156.2	166.5
95°	46.8	82.3	132.1	164.6	174.8
97.5°	61.4	93.8	144.0	174.7	184.5
100°	78.2	106.2	154.7	186.7	195.6
102.5°	96.4	124.0	167.5	198.6	208.0
105°	115.6	139.1	181.8	211.1	221.8
107.5°	136.4	157.4	198.3	226.2	234.1
110°	158.3	176.6	215.1	241.8	250.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	181.9	194.8	232.5	257.0	265.4
115°	203.8	214.9	250.4	273.9	281.4
117.5°	226.1	233.2	267.4	290.4	297.9
120°	247.9	254.1	285.1	307.8	313.9
122.5°	270.1	272.0	302.5	323.4	330.0
125°	291.0	292.4	319.5	339.9	346.0
127.5°	312.9	313.0	336.0	355.5	362.5
130°	333.3	334.3	353.8	372.0	377.7
132.5°	352.5	356.6	369.4	387.6	391.5
135°	374.3	375.6	385.4	402.7	407.5
137.5°	394.7	396.0	402.4	418.7	421.7
140°	412.9	415.1	417.9	433.4	436.4
142.5°	432.4	432.9	434.7	447.2	450.2
145°	451.5	452.0	453.3	460.0	464.0
147.5°	467.9	469.2	470.1	474.2	473.2
150°	485.6	485.1	487.0	487.0	487.3
152.5°	500.1	501.0	501.5	502.9	501.0
155°	515.1	515.1	515.6	517.4	515.1
157.5°	528.7	527.8	528.3	530.1	526.9
160°	540.6	539.2	539.6	541.5	539.2
162.5°	551.0	550.1	550.1	552.4	549.6
165°	560.1	559.2	559.6	561.5	558.7
167.5°	568.3	566.4	566.4	569.2	566.4
170°	574.6	572.8	572.8	575.5	572.4
172.5°	579.2	577.4	577.4	580.1	577.4
175°	582.3	580.5	580.5	583.3	580.1
177.5°	584.6	582.8	582.3	585.1	581.9
180°	583.7	583.7	583.7	583.7	583.7

(END OF REPORT)