

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: P1035043

Luminaire Tested: S125DIW-B1090D470UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035043
REPORT IS A COMBINATION OF REPORTS P1002963 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D470UB35-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

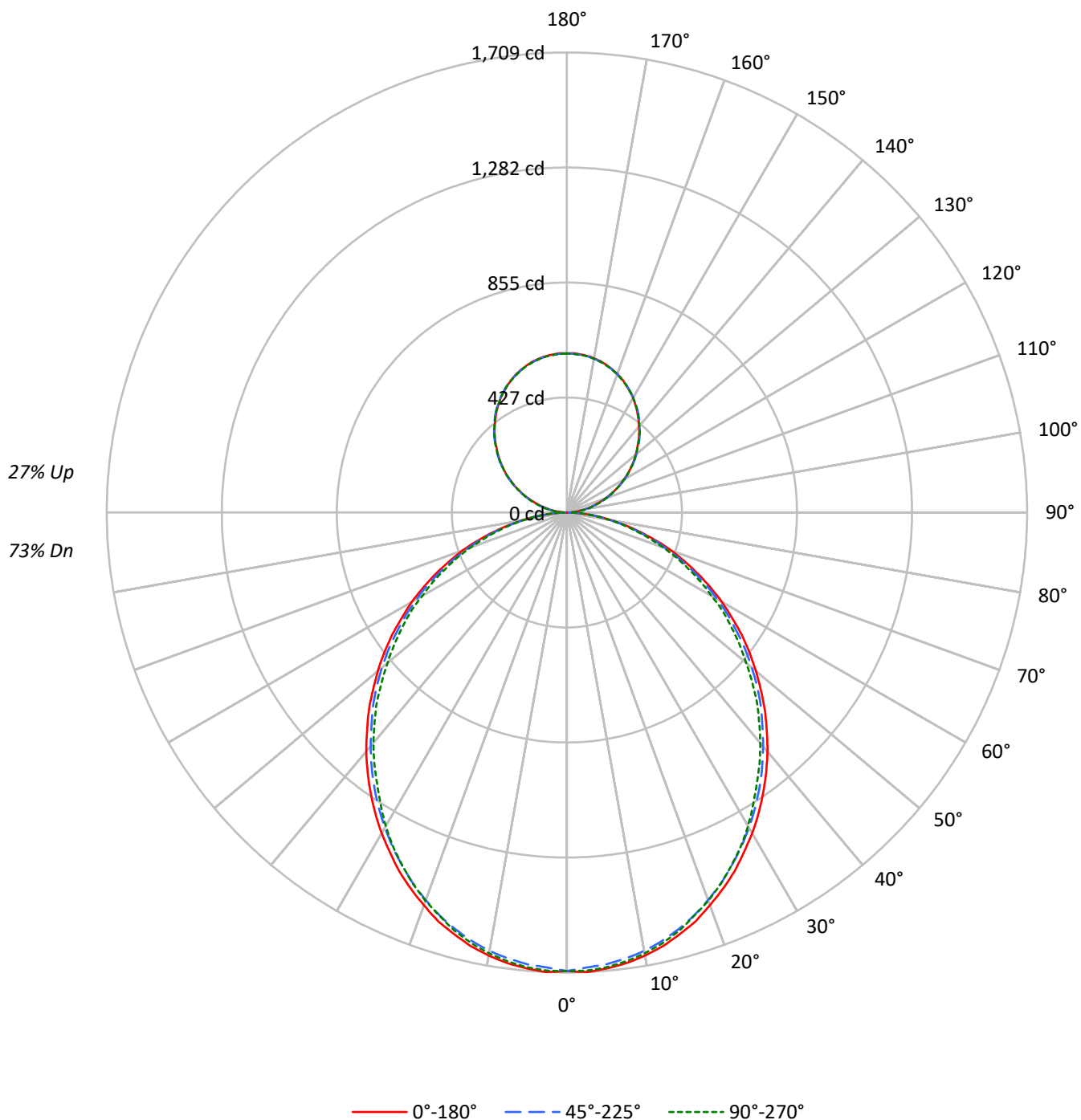
Lumens per Lamp: N/A
Luminaire Lumens: 6085.0 lumens
Efficiency: N/A
Efficacy: 101.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77
1	103	98	94	91	97	93	90	87	84	81	79	76	74	72	68	67	65
2	94	86	79	74	89	82	76	71	74	69	65	67	63	60	60	57	55
3	85	75	68	62	81	72	65	59	65	60	55	59	54	51	53	50	47
4	78	67	59	52	74	64	56	50	58	52	47	52	48	43	47	43	40
5	72	60	51	45	68	57	49	43	52	46	41	47	42	38	43	38	35
6	66	54	45	39	63	51	44	38	47	40	36	43	37	33	39	34	31
7	61	49	40	35	58	47	39	33	43	36	31	39	33	29	35	31	27
8	57	44	36	31	54	42	35	30	39	33	28	36	30	26	33	28	25
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	22	28	23	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10915	10915	10915
5°	10916	10662	10682
10°	10825	10417	10384
15°	10683	10125	10034
20°	10491	9786	9632
25°	10285	9416	9202
30°	10036	9031	8749
35°	9769	8627	8241
40°	9495	8200	7789
45°	9198	7784	7309
50°	8871	7313	6750
55°	8547	6792	6235
60°	8162	6243	5637
65°	7700	5608	5018
70°	7229	4878	4305
75°	6440	4017	3480
80°	5487	3000	2560
85°	4237	1775	1410

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9198 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.8	2.6
10°-20°	454.1	7.5
20°-30°	670.4	11.0
30°-40°	782.1	12.9
40°-50°	785.5	12.9
50°-60°	689.5	11.3
60°-70°	513.6	8.4
70°-80°	293.3	4.8
80°-90°	85.6	1.4
90°-100°	39.3	0.6
100°-110°	116.8	1.9
110°-120°	198.1	3.3
120°-130°	260.8	4.3
130°-140°	292.2	4.8
140°-150°	286.4	4.7
150°-160°	240.6	4.0
160°-170°	159.9	2.6
170°-180°	56.0	0.9
0°-30°	1285.2	21.1
0°-40°	2067.3	34.0
0°-60°	3542.4	58.2
0°-90°	4434.9	72.9
90°-120°	354.2	5.8
90°-150°	1193.6	19.6
90°-180°	1650.0	27.1
0°-180°	6085.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1704	1704	1704	1704	1704	
5°	1701	1698	1685	1697	1696	161
15°	1621	1617	1602	1609	1609	457
25°	1472	1465	1448	1450	1446	677
35°	1271	1266	1247	1240	1229	795
45°	1040	1035	1019	1003	999	802
55°	792	788	770	757	748	707
65°	535	532	518	505	500	531
75°	284	282	275	271	266	303
85°	74	76	76	74	71	81
90°	0	4	7	10	11	7
95°	30	31	35	39	40	31
105°	105	107	110	113	114	112
115°	198	200	201	201	200	196
125°	289	292	293	292	291	259
135°	376	379	380	380	378	290
145°	456	458	459	459	458	285
155°	522	522	522	524	522	240
165°	567	566	567	569	566	160
175°	590	588	588	591	588	56
180°	591	591	591	591	591	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1703.6	1703.6	1703.6	1703.6	1703.6
2.5°	1709.0	1704.9	1691.5	1704.9	1703.6
5°	1700.9	1698.2	1684.7	1696.8	1695.5
7.5°	1688.8	1686.1	1671.2	1683.4	1682.0
10°	1671.2	1668.5	1653.7	1664.5	1663.1
12.5°	1649.7	1644.3	1630.8	1638.9	1638.9
15°	1621.4	1617.3	1602.5	1609.2	1609.2
17.5°	1591.7	1585.0	1570.2	1578.2	1571.5
20°	1552.6	1549.9	1532.4	1541.8	1535.1
22.5°	1513.5	1508.2	1492.0	1497.4	1493.3
25°	1471.8	1465.0	1447.5	1450.2	1446.2
27.5°	1423.2	1419.2	1401.7	1403.0	1399.0
30°	1376.1	1372.0	1351.8	1349.1	1345.1
32.5°	1324.9	1318.1	1300.6	1295.2	1287.1
35°	1270.9	1265.6	1246.7	1239.9	1229.2
37.5°	1215.7	1208.9	1191.4	1182.0	1175.3
40°	1159.1	1152.3	1133.5	1121.3	1117.3
42.5°	1098.4	1093.0	1074.2	1063.4	1056.7
45°	1040.5	1035.1	1018.9	1002.7	998.7
47.5°	977.1	978.5	958.3	942.1	932.7
50°	916.5	912.4	896.3	878.7	869.3
52.5°	854.5	851.8	834.3	819.4	808.7
55°	792.5	788.4	769.6	757.4	748.0
57.5°	726.4	725.1	708.9	692.8	688.7
60°	664.5	659.1	644.2	630.8	621.3
62.5°	599.8	595.7	583.6	568.8	562.0
65°	535.1	532.4	517.5	505.4	500.0
67.5°	471.7	466.3	455.5	444.8	442.1
70°	412.4	405.7	393.5	385.5	380.1
72.5°	347.7	343.7	336.9	327.5	322.1
75°	284.4	281.7	274.9	270.9	265.5
77.5°	225.1	223.7	219.7	217.0	212.9
80°	169.8	169.8	167.1	165.8	163.1
82.5°	121.3	118.6	118.6	115.9	115.9
85°	74.1	75.5	75.5	74.1	71.4
87.5°	36.4	36.4	35.0	35.0	32.3
90°	0.5	4.1	7.4	9.7	11.0
92.5°	13.8	16.1	20.2	23.5	24.4
95°	29.9	30.8	35.4	38.6	39.6
97.5°	46.0	46.5	52.9	55.7	56.1
100°	64.4	64.4	70.4	74.5	75.5
102.5°	84.2	86.5	88.8	93.4	94.8
105°	104.9	107.2	110.0	112.7	114.1
107.5°	127.4	129.7	132.0	133.4	133.4
110°	150.9	153.2	154.6	156.0	155.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	174.8	175.8	177.6	178.1	177.1
115°	198.3	200.1	201.1	200.6	200.1
117.5°	222.2	222.7	223.6	224.1	222.2
120°	244.3	246.6	247.1	247.1	245.2
122.5°	268.2	268.7	270.1	269.6	268.2
125°	289.4	292.2	292.6	291.7	291.2
127.5°	312.9	314.2	314.7	314.2	313.3
130°	333.6	335.9	336.8	336.3	335.4
132.5°	354.3	358.4	358.0	357.5	356.1
135°	376.4	379.1	379.6	379.6	377.7
137.5°	397.1	399.8	400.7	401.2	398.9
140°	416.9	419.2	420.5	421.5	419.2
142.5°	436.6	438.5	440.3	440.8	438.5
145°	456.0	457.8	459.2	459.2	457.8
147.5°	473.9	475.3	476.2	477.6	473.9
150°	491.8	491.4	493.2	493.2	492.3
152.5°	506.6	507.5	508.0	509.3	507.5
155°	521.8	521.8	522.2	524.1	521.8
157.5°	535.6	534.6	535.1	536.9	533.7
160°	547.5	546.1	546.6	548.4	546.1
162.5°	558.1	557.2	557.2	559.5	556.7
165°	567.3	566.4	566.8	568.7	565.9
167.5°	575.6	573.7	573.7	576.5	573.7
170°	582.0	580.2	580.2	582.9	579.7
172.5°	586.6	584.8	584.8	587.6	584.8
175°	589.9	588.0	588.0	590.8	587.6
177.5°	592.2	590.3	589.9	592.6	589.4
180°	591.2	591.2	591.2	591.2	591.2

(END OF REPORT)