

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: P1035073

Luminaire Tested: S125DIW-B1090D770UB35-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035073
REPORT IS A COMBINATION OF REPORTS P1003029 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D770UB35-4F0-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

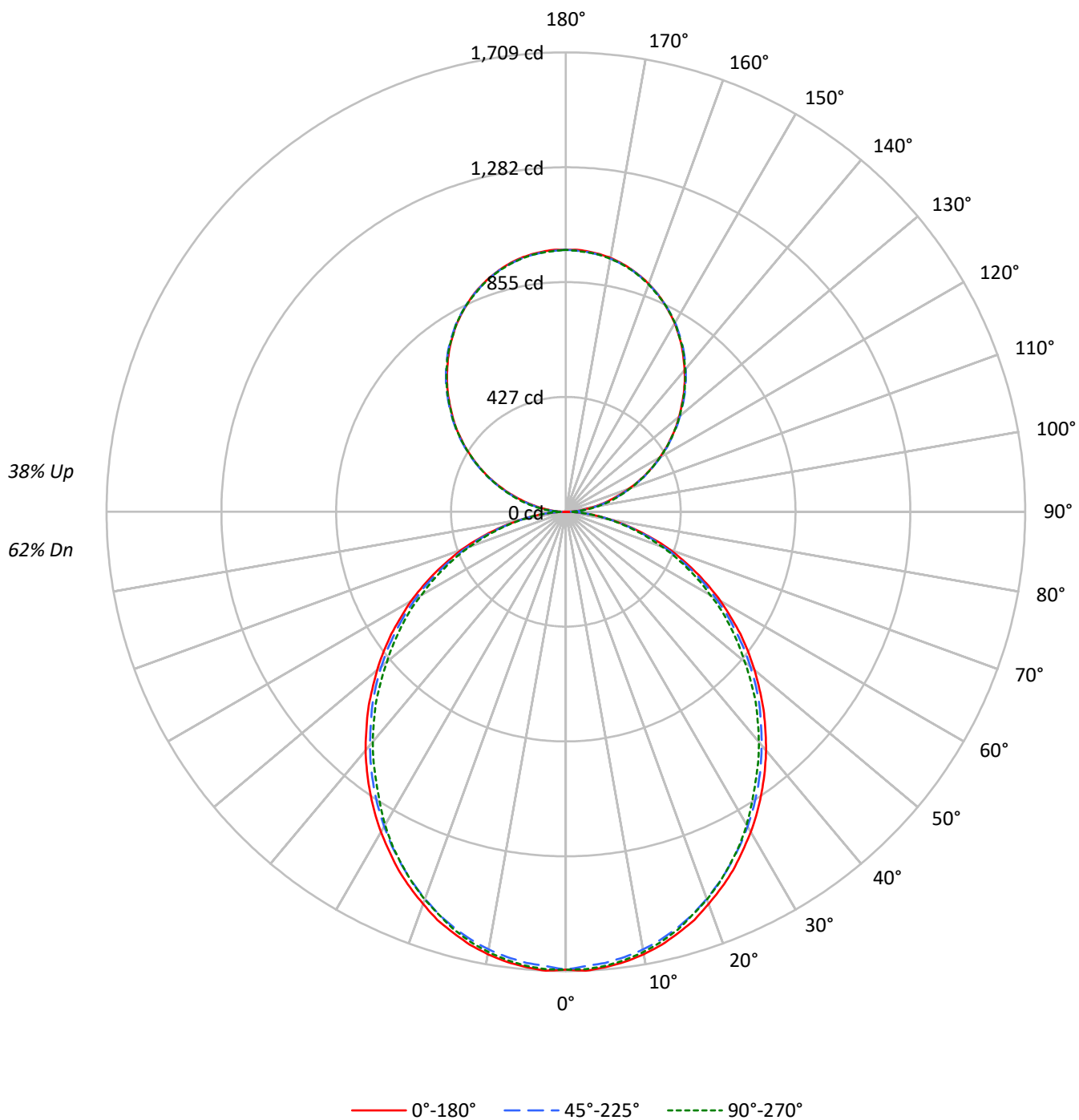
Lumens per Lamp: N/A
Luminaire Lumens: 7155.0 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 70
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67
1	100	96	92	88	94	90	87	83	79	76	74	69	67	65	59	58	57
2	91	84	77	72	85	79	73	68	69	65	61	60	57	54	52	50	48
3	83	74	66	60	78	69	63	57	61	56	51	53	49	46	46	43	40
4	76	65	57	51	71	61	54	49	54	48	44	47	43	39	41	38	35
5	70	58	50	44	65	55	47	42	49	42	38	43	38	34	37	33	30
6	65	52	44	38	60	49	42	36	44	38	33	39	34	30	34	30	27
7	60	47	39	33	56	45	37	32	40	34	29	35	30	26	31	27	24
8	56	43	35	30	52	41	33	28	36	30	26	32	27	24	28	24	21
9	52	39	32	26	48	37	30	25	33	27	23	30	25	21	26	22	19
10	48	36	29	24	45	34	27	23	31	25	21	27	23	19	24	20	18

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	2.2
10°-20°	454.1	6.3
20°-30°	670.4	9.4
30°-40°	782.1	10.9
40°-50°	785.5	11.0
50°-60°	689.5	9.6
60°-70°	513.6	7.2
70°-80°	293.3	4.1
80°-90°	86.2	1.2
90°-100°	64.8	0.9
100°-110°	192.5	2.7
110°-120°	326.5	4.6
120°-130°	429.8	6.0
130°-140°	481.6	6.7
140°-150°	472.0	6.6
150°-160°	396.5	5.5
160°-170°	263.6	3.7
170°-180°	92.2	1.3
0°-30°	1285.2	18.0
0°-40°	2067.3	28.9
0°-60°	3542.4	49.5
0°-90°	4435.5	62.0
90°-120°	583.8	8.2
90°-150°	1967.2	27.5
90°-180°	2720.0	38.0
0°-180°	7155.0	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°	1	7	12	16	18	8
95°	49	51	58	64	65	52
105°	173	177	181	186	188	184
115°	327	330	331	331	330	323
125°	477	482	482	481	480	427
135°	620	625	626	626	623	478
145°	752	754	757	757	754	470
155°	860	860	861	864	860	396
165°	935	934	934	937	933	264
175°	972	969	969	974	968	92
180°	974	974	974	974	974	

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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°	0.8	6.8	12.1	15.9	18.2
92.5°	22.7	26.5	33.4	38.7	40.2
95°	49.3	50.8	58.4	63.7	65.2
97.5°	75.8	76.6	87.2	91.8	92.5
100°	106.2	106.2	116.0	122.8	124.4
102.5°	138.8	142.6	146.4	153.9	156.2
105°	172.9	176.7	181.2	185.8	188.1
107.5°	210.0	213.8	217.6	219.9	219.9
110°	248.7	252.5	254.8	257.1	256.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	289.7	292.7	293.5	291.9
115°	326.8	329.9	331.4	330.6	329.9
117.5°	366.3	367.0	368.5	369.3	366.3
120°	402.7	406.4	407.2	407.2	404.2
122.5°	442.1	442.8	445.1	444.4	442.1
125°	477.0	481.5	482.3	480.8	480.0
127.5°	515.6	517.9	518.7	517.9	516.4
130°	549.8	553.6	555.1	554.3	552.8
132.5°	583.9	590.7	590.0	589.2	586.9
135°	620.3	624.8	625.6	625.6	622.6
137.5°	654.4	659.0	660.5	661.2	657.4
140°	687.0	690.8	693.1	694.6	690.8
142.5°	719.6	722.7	725.7	726.4	722.7
145°	751.5	754.5	756.8	756.8	754.5
147.5°	781.0	783.3	784.8	787.1	781.0
150°	810.6	809.9	812.9	812.9	811.4
152.5°	834.9	836.4	837.2	839.4	836.4
155°	859.9	859.9	860.7	863.7	859.9
157.5°	882.7	881.1	881.9	884.9	879.6
160°	902.4	900.1	900.8	903.9	900.1
162.5°	919.8	918.3	918.3	922.1	917.5
165°	935.0	933.5	934.2	937.2	932.7
167.5°	948.6	945.6	945.6	950.1	945.6
170°	959.2	956.2	956.2	960.8	955.4
172.5°	966.8	963.8	963.8	968.3	963.8
175°	972.1	969.1	969.1	973.6	968.3
177.5°	975.9	972.9	972.1	976.7	971.4
180°	974.4	974.4	974.4	974.4	974.4

(END OF REPORT)