

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: P1035061

Luminaire Tested: S125DIW-B1090D770UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035061
REPORT IS A COMBINATION OF REPORTS P1002990 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D770UB27-4F0-XX-W2A-F1
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

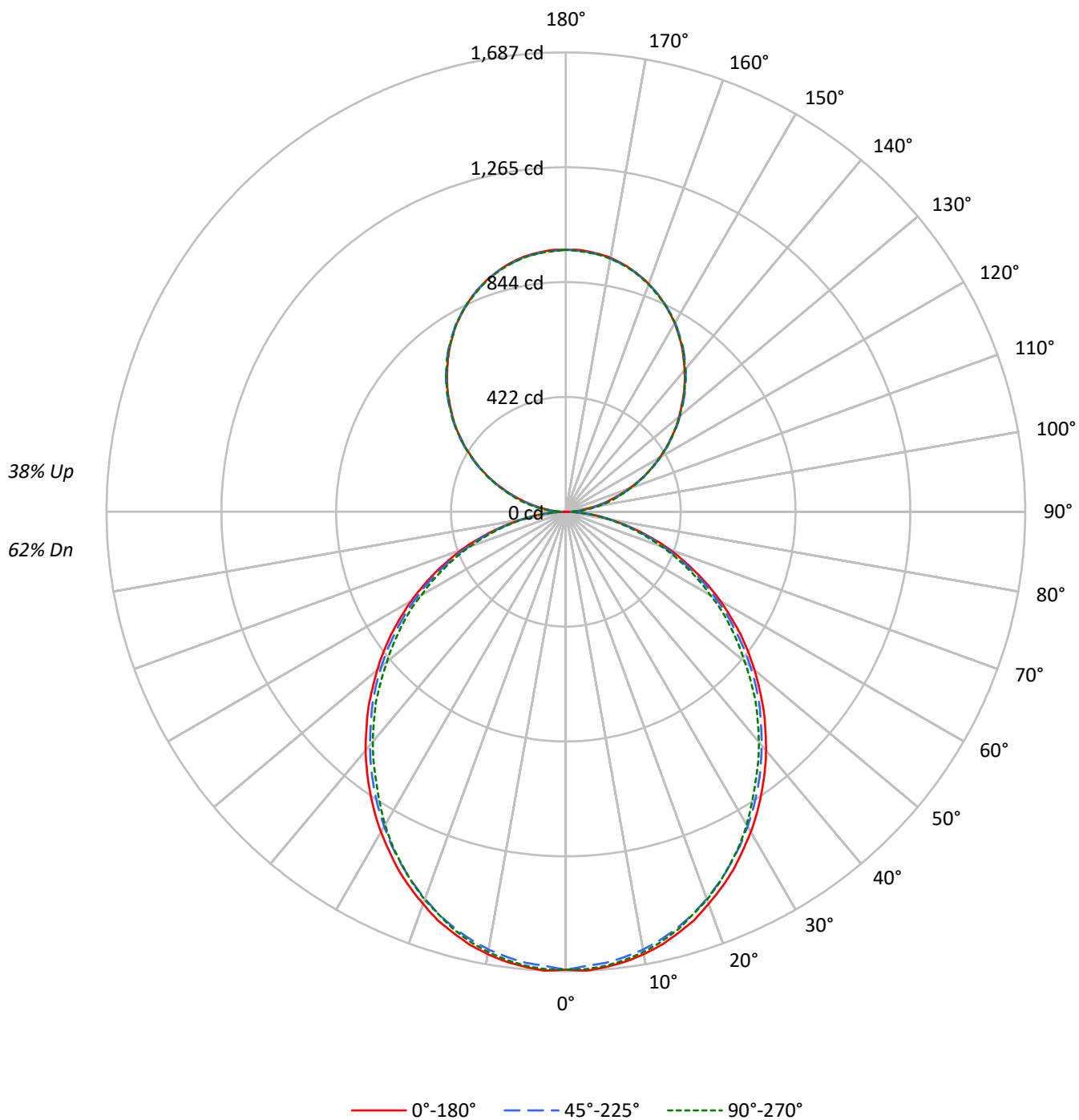
Lumens per Lamp: N/A
Luminaire Lumens: 7063.0 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	10775	10775	10775
5°	10775	10525	10545
10°	10686	10284	10251
15°	10546	9995	9905
20°	10356	9660	9508
25°	10152	9295	9084
30°	9907	8915	8636
35°	9644	8517	8135
40°	9373	8095	7688
45°	9080	7684	7215
50°	8757	7218	6663
55°	8437	6705	6155
60°	8056	6164	5564
65°	7600	5537	4954
70°	7136	4816	4249
75°	6356	3965	3436
80°	5416	2962	2528
85°	4185	1752	1393

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9080 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.7	2.2
10°-20°	448.2	6.3
20°-30°	661.7	9.4
30°-40°	772.1	10.9
40°-50°	775.4	11.0
50°-60°	680.7	9.6
60°-70°	507.0	7.2
70°-80°	289.6	4.1
80°-90°	85.1	1.2
90°-100°	64.0	0.9
100°-110°	190.0	2.7
110°-120°	322.3	4.6
120°-130°	424.2	6.0
130°-140°	475.4	6.7
140°-150°	466.0	6.6
150°-160°	391.4	5.5
160°-170°	260.2	3.7
170°-180°	91.1	1.3
0°-30°	1268.7	18.0
0°-40°	2040.7	28.9
0°-60°	3496.8	49.5
0°-90°	4378.5	62.0
90°-120°	576.3	8.2
90°-150°	1941.9	27.5
90°-180°	2685.0	38.0
0°-180°	7063.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1679	1676	1663	1675	1674	159
15°	1600	1596	1582	1588	1588	451
25°	1453	1446	1429	1432	1428	668
35°	1255	1249	1231	1224	1213	785
45°	1027	1022	1006	990	986	791
55°	782	778	760	748	738	698
65°	528	526	511	499	494	524
75°	281	278	271	267	262	299
85°	73	74	74	73	70	80
90°	1	7	12	16	18	8
95°	49	50	58	63	64	51
105°	171	174	179	183	186	182
115°	323	326	327	326	326	319
125°	471	475	476	475	474	422
135°	612	617	618	618	614	472
145°	742	745	747	747	745	464
155°	849	849	850	853	849	391
165°	923	921	922	925	921	260
175°	960	957	957	961	956	91
180°	962	962	962	962	962	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.7	1681.7	1681.7	1681.7	1681.7
2.5°	1687.0	1683.0	1669.7	1683.0	1681.7
5°	1679.0	1676.4	1663.1	1675.0	1673.7
7.5°	1667.0	1664.4	1649.7	1661.7	1660.4
10°	1649.7	1647.1	1632.5	1643.1	1641.8
12.5°	1628.5	1623.1	1609.8	1617.8	1617.8
15°	1600.5	1596.5	1581.9	1588.5	1588.5
17.5°	1571.3	1564.6	1550.0	1557.9	1551.3
20°	1532.7	1530.0	1512.7	1522.0	1515.4
22.5°	1494.1	1488.8	1472.8	1478.1	1474.1
25°	1452.8	1446.2	1428.9	1431.6	1427.6
27.5°	1404.9	1401.0	1383.7	1385.0	1381.0
30°	1358.4	1354.4	1334.4	1331.8	1327.8
32.5°	1307.8	1301.2	1283.9	1278.6	1270.6
35°	1254.6	1249.3	1230.7	1224.0	1213.4
37.5°	1200.1	1193.4	1176.1	1166.8	1160.1
40°	1144.2	1137.5	1118.9	1106.9	1102.9
42.5°	1084.3	1079.0	1060.4	1049.7	1043.1
45°	1027.1	1021.8	1005.8	989.8	985.9
47.5°	964.6	965.9	945.9	930.0	920.7
50°	904.7	900.7	884.7	867.4	858.1
52.5°	843.5	840.8	823.5	808.9	798.3
55°	782.3	778.3	759.7	747.7	738.4
57.5°	717.1	715.8	699.8	683.8	679.9
60°	655.9	650.6	636.0	622.6	613.3
62.5°	592.0	588.1	576.1	561.4	554.8
65°	528.2	525.5	510.9	498.9	493.6
67.5°	465.7	460.3	449.7	439.0	436.4
70°	407.1	400.5	388.5	380.5	375.2
72.5°	343.3	339.3	332.6	323.3	318.0
75°	280.7	278.1	271.4	267.4	262.1
77.5°	222.2	220.9	216.9	214.2	210.2
80°	167.6	167.6	165.0	163.6	161.0
82.5°	119.7	117.1	117.1	114.4	114.4
85°	73.2	74.5	74.5	73.2	70.5
87.5°	35.9	35.9	34.6	34.6	31.9
90°	0.7	6.7	12.0	15.7	18.0
92.5°	22.5	26.2	32.9	38.2	39.7
95°	48.7	50.2	57.6	62.9	64.4
97.5°	74.9	75.6	86.1	90.6	91.3
100°	104.8	104.8	114.5	121.3	122.8
102.5°	137.0	140.7	144.5	152.0	154.2
105°	170.7	174.4	178.9	183.4	185.6
107.5°	207.3	211.1	214.8	217.1	217.1
110°	245.5	249.3	251.5	253.8	253.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	284.4	285.9	288.9	289.7	288.2
115°	322.6	325.6	327.1	326.4	325.6
117.5°	361.5	362.3	363.8	364.5	361.5
120°	397.5	401.2	402.0	402.0	399.0
122.5°	436.4	437.1	439.4	438.6	436.4
125°	470.8	475.3	476.1	474.6	473.8
127.5°	509.0	511.3	512.0	511.3	509.8
130°	542.7	546.4	547.9	547.2	545.7
132.5°	576.4	583.1	582.4	581.6	579.4
135°	612.3	616.8	617.5	617.5	614.5
137.5°	646.0	650.5	652.0	652.7	649.0
140°	678.2	681.9	684.2	685.7	681.9
142.5°	710.4	713.4	716.4	717.1	713.4
145°	741.8	744.8	747.0	747.0	744.8
147.5°	771.0	773.2	774.7	777.0	771.0
150°	800.2	799.4	802.4	802.4	800.9
152.5°	824.1	825.6	826.4	828.6	825.6
155°	848.8	848.8	849.6	852.6	848.8
157.5°	871.3	869.8	870.5	873.5	868.3
160°	890.8	888.5	889.3	892.3	888.5
162.5°	908.0	906.5	906.5	910.2	905.7
165°	922.9	921.4	922.2	925.2	920.7
167.5°	936.4	933.4	933.4	937.9	933.4
170°	946.9	943.9	943.9	948.4	943.2
172.5°	954.4	951.4	951.4	955.9	951.4
175°	959.6	956.6	956.6	961.1	955.9
177.5°	963.4	960.4	959.6	964.1	958.9
180°	961.9	961.9	961.9	961.9	961.9

(END OF REPORT)