

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: P1029264

Luminaire Tested: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029264
REPORT IS A COMBINATION OF REPORTS P985327 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D710UB2750-4F0-XX-W2A-F1_2700K
Description: Define 2 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

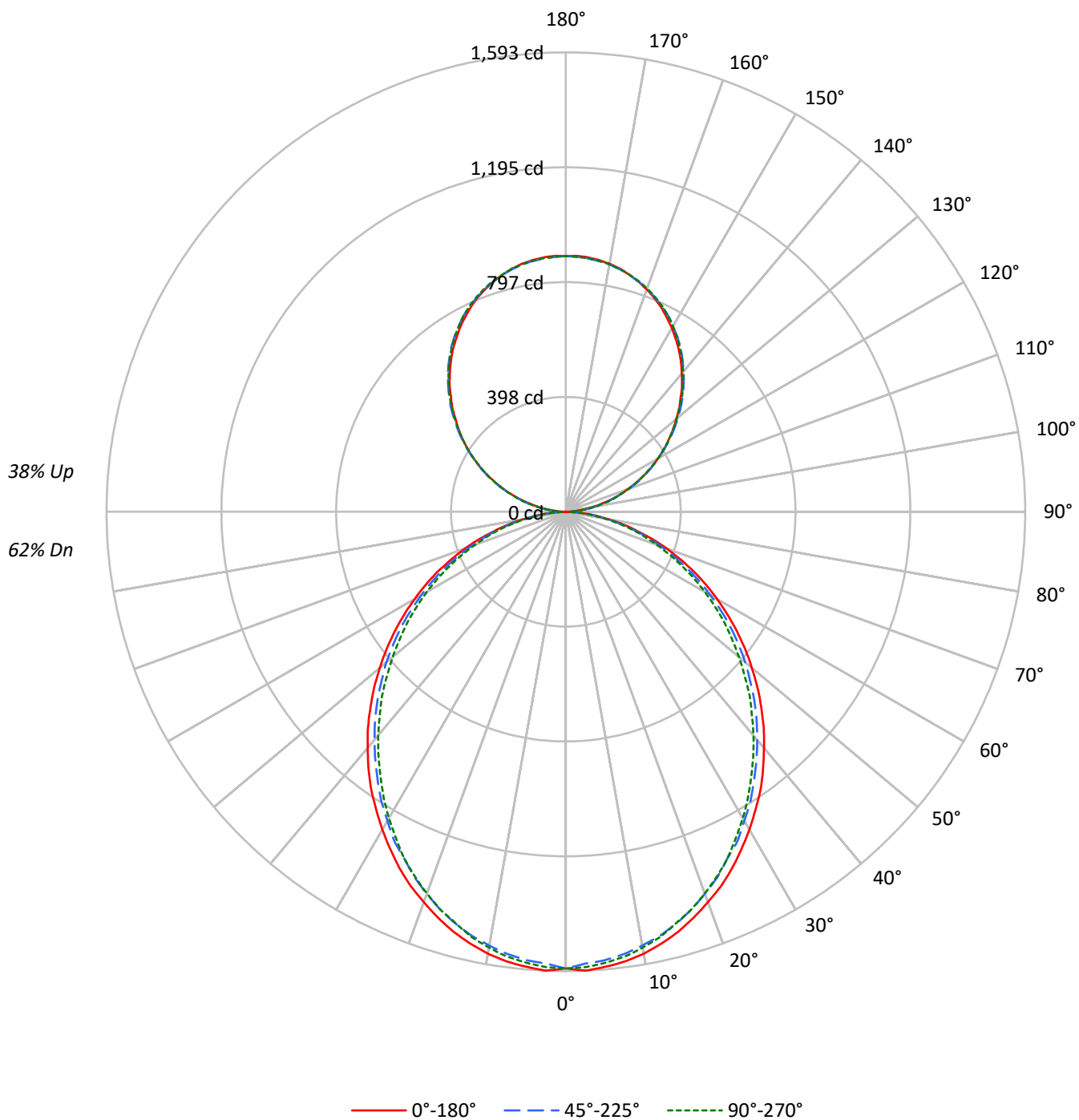
Lumens per Lamp: N/A
Luminaire Lumens: 6511.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84.5
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	0
RCR																				
0	110	110	110	110	103	103	103	103	90	90	90		78	78	78		67	67	67	62
1	100	96	92	89	94	90	87	84	79	76	74		69	67	65		59	58	57	52
2	91	84	78	72	85	79	73	69	69	65	61		60	57	54		52	50	48	44
3	83	74	66	60	78	69	63	57	61	56	52		53	49	46		46	43	41	37
4	76	65	57	51	71	62	54	49	54	49	44		48	43	39		41	38	35	32
5	70	58	50	44	66	55	48	42	49	43	38		43	38	34		37	34	31	28
6	65	52	44	38	60	49	42	37	44	38	33		39	34	30		34	30	27	24
7	60	47	39	34	56	45	37	32	40	34	29		35	30	27		31	27	24	22
8	56	43	35	30	52	41	34	29	36	30	26		32	27	24		28	24	22	19
9	52	39	32	27	49	37	30	26	33	28	24		30	25	21		26	22	19	17
10	49	36	29	24	46	34	28	23	31	25	21		28	23	19		24	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25067	25067	25067
5°	25108	23894	23724
10°	24904	22805	22353
15°	24540	21709	20909
20°	24047	20514	19542
25°	23556	19269	18178
30°	22937	18098	16746
35°	22355	16861	15339
40°	21634	15642	14009
45°	20918	14433	12705
50°	20138	13201	11353
55°	19313	11886	10071
60°	18389	10461	8739
65°	17377	9013	7339
70°	16089	7428	5926
75°	14310	5728	4576
80°	12159	3892	2945
85°	8814	1811	1253

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 20918 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.0	2.3
10°-20°	419.4	6.4
20°-30°	616.3	9.5
30°-40°	715.8	11.0
40°-50°	714.9	11.0
50°-60°	623.3	9.6
60°-70°	460.8	7.1
70°-80°	260.7	4.0
80°-90°	71.3	1.1
90°-100°	54.8	0.8
100°-110°	174.4	2.7
110°-120°	298.4	4.6
120°-130°	392.5	6.0
130°-140°	440.5	6.8
140°-150°	432.0	6.6
150°-160°	362.4	5.6
160°-170°	240.3	3.7
170°-180°	84.0	1.3
0°-30°	1184.7	18.2
0°-40°	1900.5	29.2
0°-60°	3238.7	49.7
0°-90°	4031.5	61.9
90°-120°	527.7	8.1
90°-150°	1792.7	27.5
90°-180°	2479.0	38.1
0°-180°	6511.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1584	1584	1584	1584	1584	
5°	1584	1578	1561	1573	1570	150
15°	1508	1498	1479	1485	1477	425
25°	1364	1352	1326	1329	1326	628
35°	1177	1162	1138	1128	1121	735
45°	958	947	924	908	901	739
55°	725	716	697	679	672	648
65°	489	480	464	451	443	483
75°	256	253	245	236	239	273
85°	62	61	59	55	53	70
90°	1	10	26	25	25	6
95°	39	46	48	48	46	43
105°	161	163	165	166	166	170
115°	299	304	302	302	299	296
125°	436	442	440	438	437	389
135°	564	572	573	572	570	435
145°	684	689	694	694	692	427
155°	782	784	787	790	788	360
165°	851	850	850	855	852	240
175°	885	883	882	887	882	84
180°	887	887	887	887	887	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1583.6	1583.6	1583.6	1583.6	1583.6
2.5°	1592.8	1585.1	1568.4	1583.6	1580.6
5°	1583.6	1577.5	1560.8	1573.0	1569.9
7.5°	1573.0	1563.8	1547.1	1559.3	1556.2
10°	1556.2	1545.6	1527.3	1539.5	1534.9
12.5°	1533.4	1524.2	1506.0	1513.6	1510.5
15°	1507.5	1498.4	1478.6	1484.7	1477.0
17.5°	1475.5	1466.4	1446.6	1454.2	1446.6
20°	1440.5	1431.4	1410.0	1414.6	1408.5
22.5°	1405.5	1391.8	1372.0	1372.0	1368.9
25°	1364.4	1352.2	1326.3	1329.3	1326.3
27.5°	1318.7	1308.0	1288.2	1283.7	1276.0
30°	1273.0	1260.8	1238.0	1233.4	1227.3
32.5°	1224.3	1215.1	1190.8	1181.6	1175.5
35°	1177.1	1161.8	1137.5	1128.3	1120.7
37.5°	1123.8	1110.1	1085.7	1075.0	1067.4
40°	1068.9	1056.8	1032.4	1018.7	1012.6
42.5°	1015.7	1003.5	979.1	963.9	954.7
45°	957.8	947.1	924.3	907.5	901.4
47.5°	901.4	890.8	866.4	849.7	840.5
50°	842.1	834.4	813.1	791.8	784.2
52.5°	784.2	773.5	753.7	737.0	726.3
55°	724.8	715.7	697.4	679.1	671.5
57.5°	665.4	657.8	638.0	619.7	613.7
60°	606.0	600.0	578.6	561.9	557.3
62.5°	548.2	537.5	522.3	507.1	501.0
65°	488.8	479.7	464.4	450.7	443.1
67.5°	427.9	420.3	406.6	395.9	389.8
70°	371.5	365.5	351.7	341.1	335.0
72.5°	313.7	307.6	300.0	289.3	284.7
75°	255.8	252.8	245.2	236.0	239.1
77.5°	204.0	198.0	194.9	190.3	185.8
80°	152.3	150.7	147.7	143.1	140.1
82.5°	103.5	103.5	102.0	95.9	95.9
85°	62.4	60.9	59.4	54.8	53.3
87.5°	27.4	24.4	21.3	16.7	15.2
90°	0.7	9.7	26.2	24.7	25.4
92.5°	16.5	22.5	23.2	23.9	23.9
95°	38.9	46.4	47.9	47.9	46.4
97.5°	65.1	71.8	74.8	74.8	74.8
100°	95.0	101.0	103.3	103.3	102.5
102.5°	126.5	131.0	134.0	134.7	134.0
105°	160.9	163.2	164.6	166.1	166.1
107.5°	195.3	198.3	198.3	199.1	195.3
110°	228.3	232.8	232.8	232.8	230.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	264.2	268.7	267.9	265.7	264.2
115°	299.4	303.9	302.4	301.6	299.4
117.5°	334.5	340.5	336.8	334.5	332.3
120°	369.7	375.7	369.7	369.7	367.5
122.5°	401.9	409.4	405.6	403.4	401.9
125°	435.6	442.3	440.1	437.8	437.1
127.5°	468.5	476.7	473.7	470.7	468.5
130°	499.2	508.9	507.4	505.9	502.9
132.5°	533.6	541.1	541.8	538.1	535.9
135°	563.5	571.8	573.3	572.5	570.3
137.5°	596.5	603.2	604.7	604.0	601.0
140°	625.7	632.4	636.1	636.1	633.1
142.5°	655.6	662.3	664.6	665.3	662.3
145°	684.0	689.3	693.8	694.5	691.5
147.5°	709.5	716.2	719.2	720.7	717.7
150°	735.7	740.2	743.2	745.4	743.2
152.5°	758.9	763.4	767.1	770.1	767.1
155°	782.1	784.3	786.6	790.3	788.1
157.5°	802.3	803.8	805.3	810.5	806.8
160°	820.2	821.7	822.5	827.0	824.0
162.5°	836.7	836.7	837.5	842.7	839.0
165°	850.9	850.2	850.2	855.4	851.7
167.5°	863.7	861.4	861.4	866.6	862.9
170°	873.4	871.1	870.4	875.6	871.1
172.5°	880.1	877.9	877.1	882.4	877.9
175°	885.4	883.1	881.6	886.9	882.4
177.5°	888.4	886.1	884.6	889.1	884.6
180°	886.9	886.9	886.9	886.9	886.9

(END OF REPORT)