

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: P1029292

Luminaire Tested: S122DIW-B1005D970UB2750-4F0-XX-W2A-F1_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029292
REPORT IS A COMBINATION OF REPORTS P985417 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D970UB2750-4F0-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

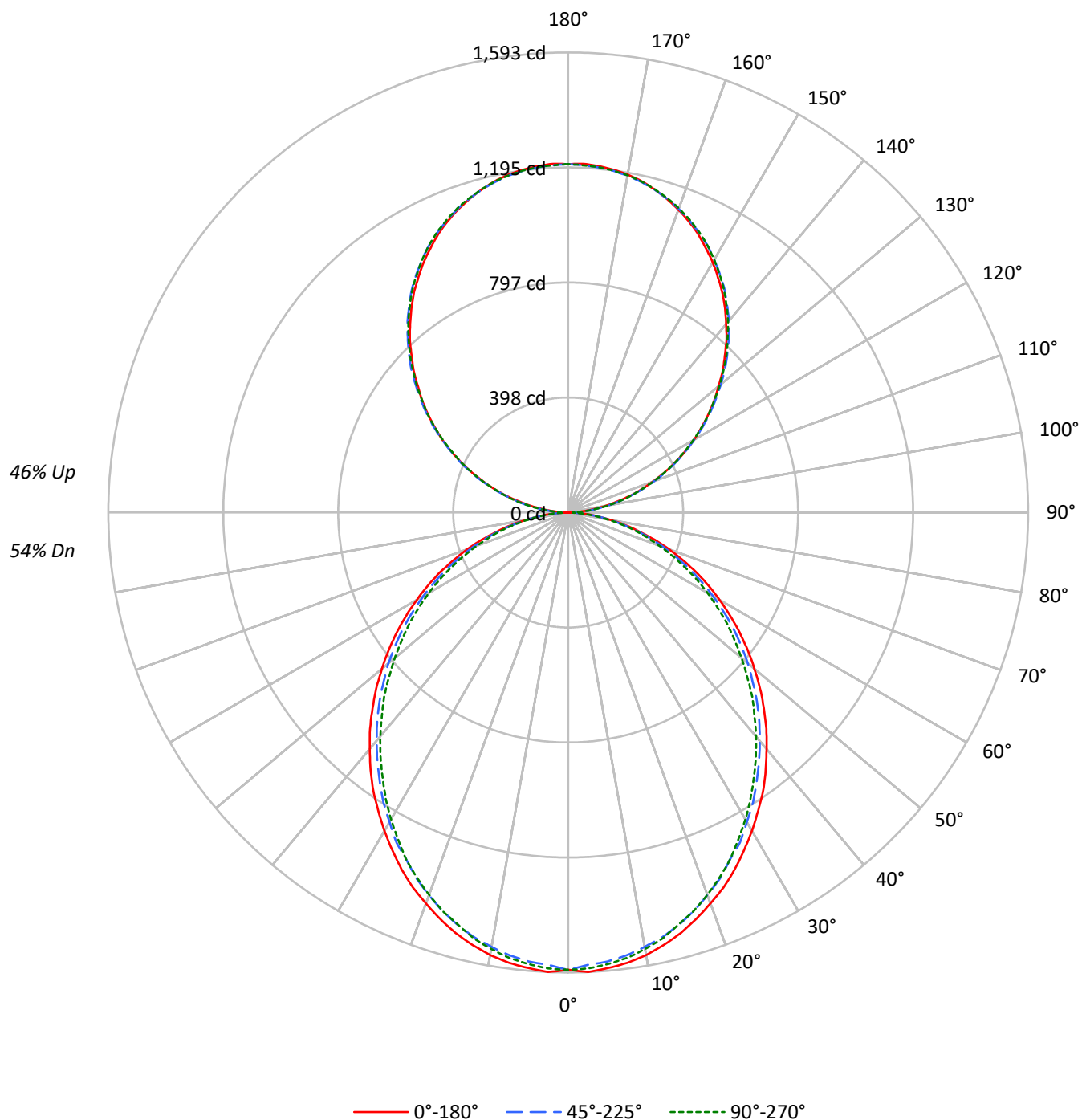
Lumens per Lamp: N/A
Luminaire Lumens: 7406.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 92.8
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	94	90	87	91	88	84	81	75	73	71	64	62	60	53	52	51
2	90	82	76	71	83	77	71	67	66	62	58	56	53	50	47	45	43
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	36
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	31
5	69	57	49	43	64	53	46	41	46	41	36	40	35	32	33	30	27
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21
8	55	42	34	29	51	40	32	28	35	29	25	30	25	22	25	22	19
9	51	39	31	26	47	36	29	25	32	26	22	28	23	20	24	20	17
10	48	35	28	23	44	33	27	22	29	24	20	25	21	18	22	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	2.0
10°-20°	419.4	5.7
20°-30°	616.3	8.3
30°-40°	715.8	9.7
40°-50°	714.9	9.7
50°-60°	623.3	8.4
60°-70°	460.8	6.2
70°-80°	260.7	3.5
80°-90°	72.2	1.0
90°-100°	74.6	1.0
100°-110°	237.3	3.2
110°-120°	406.0	5.5
120°-130°	534.0	7.2
130°-140°	599.4	8.1
140°-150°	587.8	7.9
150°-160°	493.1	6.7
160°-170°	327.0	4.4
170°-180°	114.3	1.5
0°-30°	1184.7	16.0
0°-40°	1900.5	25.7
0°-60°	3238.7	43.7
0°-90°	4032.4	54.4
90°-120°	718.0	9.7
90°-150°	2439.2	32.9
90°-180°	3374.0	45.6
0°-180°	7406.0	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	13	36	34	35	7
95°	53	63	65	65	63	59
105°	219	222	224	226	226	231
115°	407	413	411	410	407	403
125°	593	602	599	596	595	530
135°	767	778	780	779	776	593
145°	931	938	944	945	941	581
155°	1064	1067	1070	1075	1072	490
165°	1158	1157	1157	1164	1159	327
175°	1205	1202	1200	1207	1200	114
180°	1207	1207	1207	1207	1207	

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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°	1.0	13.2	35.6	33.6	34.6
92.5°	22.4	30.5	31.6	32.6	32.6
95°	53.0	63.1	65.2	65.2	63.1
97.5°	88.6	97.8	101.8	101.8	101.8
100°	129.3	137.5	140.5	140.5	139.5
102.5°	172.1	178.2	182.3	183.3	182.3
105°	218.9	222.0	224.0	226.1	226.1
107.5°	265.8	269.8	269.8	270.9	265.8
110°	310.6	316.7	316.7	316.7	313.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	359.4	365.6	364.5	361.5	359.4
115°	407.3	413.4	411.4	410.4	407.3
117.5°	455.2	463.3	458.2	455.2	452.1
120°	503.0	511.2	503.0	503.0	500.0
122.5°	546.8	557.0	551.9	548.8	546.8
125°	592.6	601.8	598.7	595.7	594.7
127.5°	637.4	648.6	644.6	640.5	637.4
130°	679.2	692.4	690.4	688.4	684.3
132.5°	726.0	736.2	737.2	732.1	729.1
135°	766.8	778.0	780.0	779.0	775.9
137.5°	811.6	820.7	822.8	821.7	817.7
140°	851.3	860.4	865.5	865.5	861.5
142.5°	892.0	901.2	904.2	905.2	901.2
145°	930.7	937.8	943.9	945.0	940.9
147.5°	965.3	974.5	978.6	980.6	976.5
150°	1001.0	1007.1	1011.1	1014.2	1011.1
152.5°	1032.5	1038.6	1043.7	1047.8	1043.7
155°	1064.1	1067.1	1070.2	1075.3	1072.2
157.5°	1091.6	1093.6	1095.7	1102.8	1097.7
160°	1116.0	1118.1	1119.1	1125.2	1121.1
162.5°	1138.4	1138.4	1139.4	1146.6	1141.5
165°	1157.8	1156.8	1156.8	1163.9	1158.8
167.5°	1175.1	1172.0	1172.0	1179.2	1174.1
170°	1188.3	1185.3	1184.2	1191.4	1185.3
172.5°	1197.5	1194.4	1193.4	1200.5	1194.4
175°	1204.6	1201.6	1199.5	1206.7	1200.5
177.5°	1208.7	1205.6	1203.6	1209.7	1203.6
180°	1206.7	1206.7	1206.7	1206.7	1206.7

(END OF REPORT)