

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: P1029239

Luminaire Tested: S122DIW-B1005D435UB2750-4F0-XX-W2A-F_2700K

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1029239
REPORT IS A COMBINATION OF REPORTS P985247 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S122DIW-B1005D435UB2750-4F0-XX-W2A-F_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

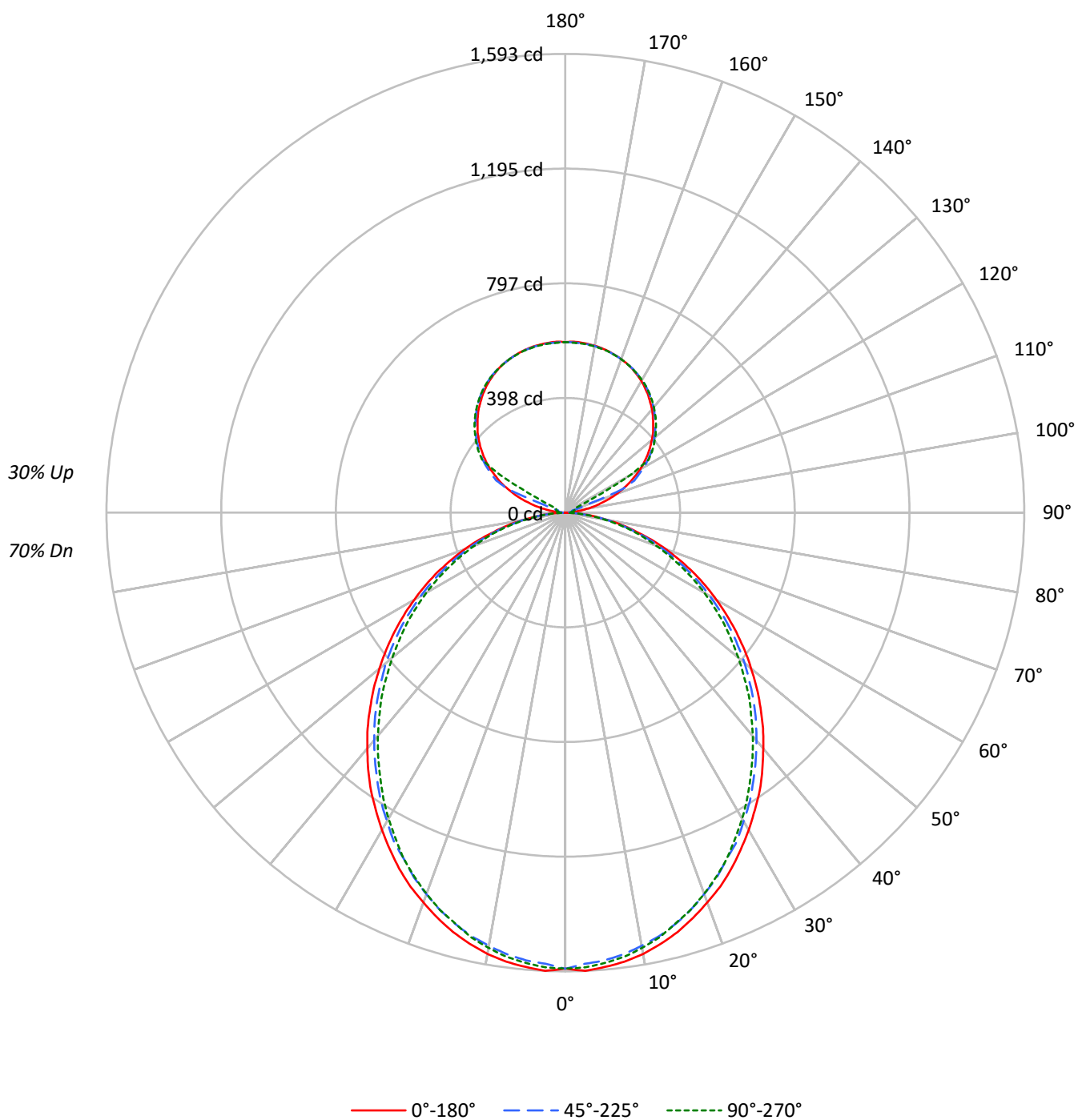
Lumens per Lamp: N/A
Luminaire Lumens: 5766.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.5
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63
2	93	85	79	74	88	81	75	71	73	68	64	65	62	59	58	55	53
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	51	48	45
4	78	67	58	52	73	63	56	50	57	51	46	51	46	43	46	42	39
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	33	30
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27
8	57	44	36	31	54	42	35	30	38	32	28	35	30	26	32	27	24
9	53	40	33	27	50	39	31	27	35	29	25	32	27	23	29	25	22
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20

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	2.6
10°-20°	419.4	7.3
20°-30°	616.3	10.7
30°-40°	715.8	12.4
40°-50°	714.9	12.4
50°-60°	623.3	10.8
60°-70°	460.8	8.0
70°-80°	260.7	4.5
80°-90°	69.8	1.2
90°-100°	19.5	0.3
100°-110°	72.8	1.3
110°-120°	193.0	3.3
120°-130°	320.2	5.6
130°-140°	340.1	5.9
140°-150°	316.1	5.5
150°-160°	254.1	4.4
160°-170°	163.8	2.8
170°-180°	56.4	1.0
0°-30°	1184.7	20.5
0°-40°	1900.5	33.0
0°-60°	3238.7	56.2
0°-90°	4030.0	69.9
90°-120°	285.4	4.9
90°-150°	1261.7	21.9
90°-180°	1736.0	30.1
0°-180°	5766.0	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°	0	5	9	11	12	5
95°	28	14	17	19	18	33
105°	130	143	26	31	33	139
115°	246	254	264	66	35	243
125°	348	354	362	365	366	311
135°	431	438	442	446	445	333
145°	500	500	507	510	508	313
155°	551	547	552	554	551	254
165°	580	578	579	582	579	164
175°	593	590	591	594	590	56
180°	592	592	592	592	592	

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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°	0.4	5.1	8.6	10.7	11.6
92.5°	10.7	9.0	10.3	11.1	11.6
95°	27.9	13.7	16.7	18.9	18.4
97.5°	50.1	15.0	21.9	23.1	23.6
100°	75.8	17.1	24.4	27.9	28.7
102.5°	104.1	103.3	25.3	30.0	31.3
105°	130.3	143.1	26.1	30.8	32.6
107.5°	160.7	171.4	27.0	31.7	33.4
110°	189.8	198.8	75.0	32.1	33.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	217.2	224.9	217.7	33.0	34.3
115°	246.4	253.7	264.4	66.0	35.1
117.5°	271.6	280.2	287.5	226.2	114.0
120°	299.9	306.4	314.1	319.2	261.4
122.5°	323.9	330.8	339.3	341.9	342.3
125°	348.3	353.9	362.1	365.1	366.3
127.5°	370.6	376.6	383.1	387.3	387.8
130°	391.6	398.5	403.2	407.9	407.5
132.5°	413.0	418.6	423.3	427.2	426.8
135°	431.0	437.9	441.8	446.0	445.2
137.5°	449.9	455.0	459.3	463.6	462.3
140°	468.3	471.7	476.5	480.3	478.2
142.5°	483.7	486.7	492.3	495.7	493.6
145°	500.0	499.6	506.9	509.9	507.7
147.5°	514.2	512.9	520.2	522.3	520.6
150°	527.9	524.9	531.7	534.3	532.2
152.5°	539.4	536.0	542.4	545.0	542.0
155°	550.6	546.7	551.9	554.4	551.0
157.5°	559.6	556.2	560.0	563.0	559.6
160°	567.3	564.7	567.3	569.9	566.9
162.5°	574.1	571.6	573.7	576.7	572.9
165°	580.1	577.6	578.9	581.9	578.9
167.5°	584.9	582.3	583.6	586.6	582.7
170°	588.7	586.1	587.0	590.0	586.1
172.5°	591.3	588.7	589.6	592.6	588.7
175°	593.4	590.4	591.3	594.3	590.0
177.5°	594.3	591.3	591.7	594.7	590.9
180°	592.1	592.1	592.1	592.1	592.1

(END OF REPORT)