

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: P1033569

Luminaire Tested: S124DIW-B575D1340UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033569
REPORT IS A COMBINATION OF REPORTS P997709 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B575D1340UB30-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

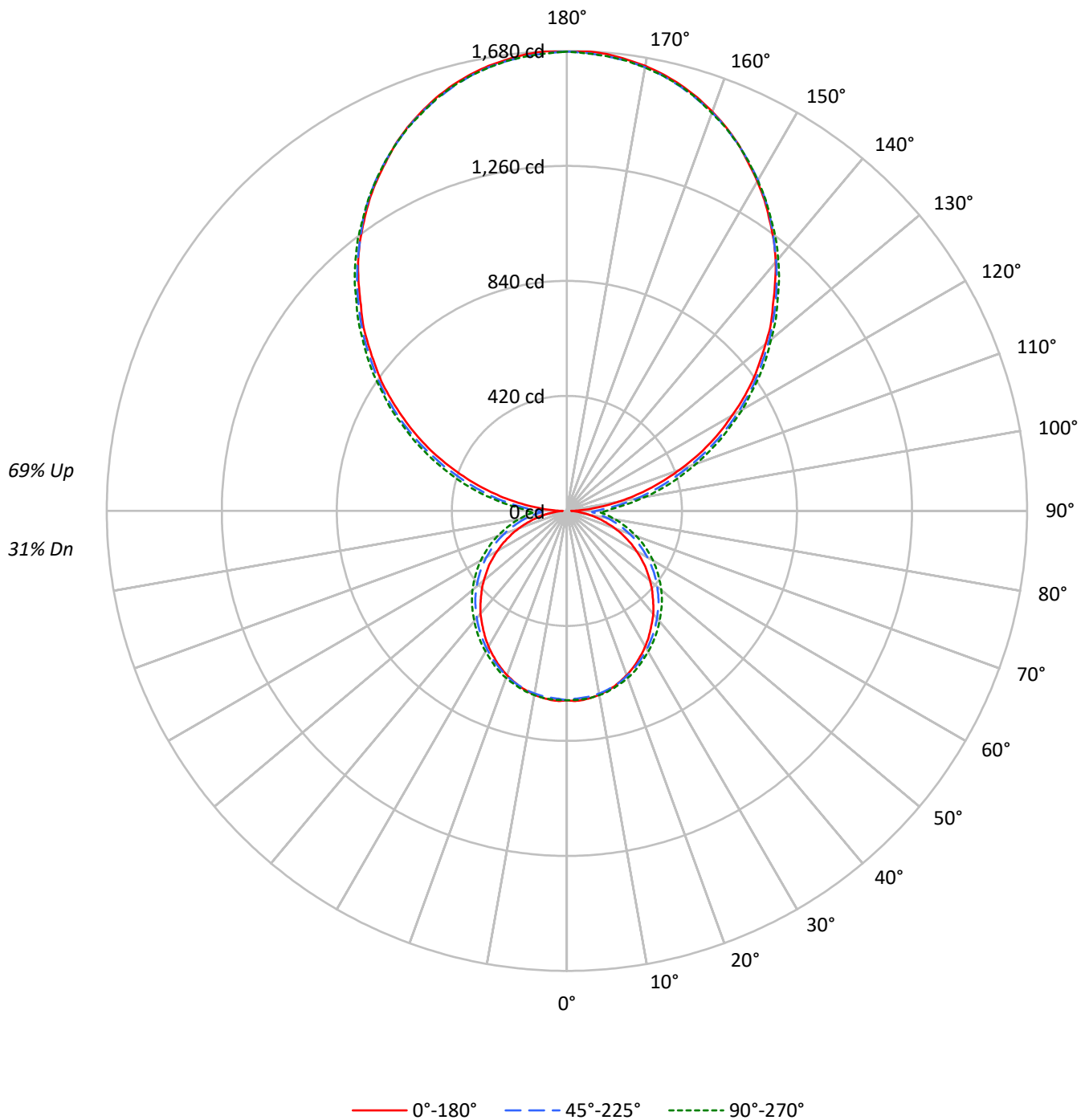
Lumens per Lamp: N/A
Luminaire Lumens: 7017.0 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 66.1
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39
1	93	88	84	81	83	80	76	73	63	60	58	47	46	44	33	32	31
2	84	77	71	65	75	69	64	59	55	51	48	41	39	37	29	27	26
3	77	67	60	54	69	61	54	49	48	43	40	36	33	31	25	23	22
4	70	59	51	45	62	53	47	41	42	37	34	32	29	26	22	20	19
5	64	53	45	39	57	47	40	35	38	33	29	29	25	22	20	18	16
6	59	47	39	33	53	42	35	30	34	29	25	26	22	19	18	16	14
7	54	42	34	29	49	38	31	26	30	25	22	23	20	17	17	14	12
8	50	38	31	25	45	35	28	23	28	23	19	21	18	15	15	13	11
9	47	35	27	22	42	31	25	21	25	20	17	19	16	13	14	12	10
10	43	32	25	20	39	29	22	18	23	18	15	18	14	12	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5642	5642	5642
5°	5658	5495	5505
10°	5621	5387	5372
15°	5568	5266	5221
20°	5490	5133	5075
25°	5403	4988	4917
30°	5307	4845	4756
35°	5200	4698	4613
40°	5114	4557	4465
45°	4986	4424	4334
50°	4877	4274	4196
55°	4765	4129	4037
60°	4591	3949	3887
65°	4399	3754	3706
70°	4165	3531	3498
75°	3841	3285	3299
80°	3475	3032	3092
85°	2991	2780	2924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 5317 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	0.9
10°-20°	187.8	2.7
20°-30°	284.0	4.0
30°-40°	343.6	4.9
40°-50°	363.2	5.2
50°-60°	341.9	4.9
60°-70°	283.7	4.0
70°-80°	199.1	2.8
80°-90°	115.8	1.7
90°-100°	176.2	2.5
100°-110°	377.0	5.4
110°-120°	589.6	8.4
120°-130°	752.5	10.7
130°-140°	832.2	11.9
140°-150°	811.6	11.6
150°-160°	681.3	9.7
160°-170°	453.3	6.5
170°-180°	158.7	2.3
0°-30°	537.4	7.7
0°-40°	881.0	12.6
0°-60°	1586.1	22.6
0°-90°	2184.7	31.1
90°-120°	1142.7	16.3
90°-150°	3539.0	50.4
90°-180°	4832.0	68.9
0°-180°	7017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	693	690	685	691	690	66
15°	664	665	662	669	669	187
25°	608	612	614	623	624	280
35°	532	541	549	559	562	333
45°	443	458	473	486	490	343
55°	347	363	387	402	407	309
65°	240	265	291	311	317	238
75°	133	162	194	216	223	142
85°	41	74	108	132	140	43
90°	16	62	105	136	144	14
95°	88	125	166	191	198	92
105°	309	326	360	383	393	328
115°	570	577	600	615	619	563
125°	827	826	844	856	858	737
135°	1064	1072	1077	1087	1088	823
145°	1292	1296	1297	1301	1300	809
155°	1479	1479	1478	1483	1478	681
165°	1610	1606	1604	1611	1606	454
175°	1675	1668	1667	1676	1667	159
180°	1678	1678	1678	1678	1678	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	691.9	691.9	691.9	691.9	691.9
2.5°	695.0	692.7	686.5	691.9	691.1
5°	692.7	690.4	684.9	691.1	690.4
7.5°	688.0	686.5	681.8	688.8	688.0
10°	681.8	681.1	677.2	684.2	683.4
12.5°	673.3	673.3	671.0	677.2	677.2
15°	664.0	664.8	662.5	669.4	668.7
17.5°	651.6	653.9	653.2	660.1	659.4
20°	638.4	640.8	641.5	649.3	649.3
22.5°	623.7	626.8	628.4	636.1	637.7
25°	607.5	612.1	614.4	623.0	623.7
27.5°	589.6	596.6	599.7	607.5	608.2
30°	571.8	578.0	583.4	592.0	593.5
32.5°	552.4	560.2	566.4	576.5	578.0
35°	531.5	540.8	548.6	559.4	561.7
37.5°	510.6	521.4	530.7	541.6	543.9
40°	490.5	500.5	511.4	523.0	526.1
42.5°	467.2	478.8	492.0	505.2	507.5
45°	443.2	457.9	472.6	485.8	489.7
47.5°	420.7	435.4	452.5	465.7	470.3
50°	395.9	413.0	430.0	445.5	450.2
52.5°	371.1	388.2	408.3	423.8	428.5
55°	347.1	363.4	386.6	402.1	406.8
57.5°	320.0	340.1	362.6	381.2	385.1
60°	293.7	313.8	339.4	357.2	363.4
62.5°	268.1	290.6	316.1	333.9	340.1
65°	240.2	265.0	291.3	310.7	316.9
67.5°	213.8	240.2	268.1	287.5	293.7
70°	186.7	213.1	242.5	263.4	268.9
72.5°	160.4	187.5	219.3	239.4	245.6
75°	133.3	161.9	194.5	216.2	223.1
77.5°	107.7	137.9	172.0	193.7	201.5
80°	84.5	115.4	149.5	172.8	179.0
82.5°	61.2	93.8	127.8	151.9	158.8
85°	41.1	73.6	108.5	131.7	139.5
87.5°	25.6	57.3	91.4	113.9	120.9
90°	16.3	61.6	105.2	135.5	144.3
92.5°	45.3	89.3	129.2	154.8	162.3
95°	87.9	125.1	166.0	190.8	197.8
97.5°	133.8	166.7	208.8	234.2	241.2
100°	190.1	215.5	257.4	280.9	286.3
102.5°	249.8	268.2	308.0	332.1	339.6
105°	309.3	326.1	359.9	383.2	393.3
107.5°	372.9	387.3	415.8	440.2	444.4
110°	436.9	450.3	476.2	491.4	501.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	503.6	512.9	535.9	552.9	559.1
115°	570.2	577.2	599.5	615.3	619.4
117.5°	633.8	638.5	660.4	672.8	675.1
120°	696.7	704.2	722.8	731.8	740.6
122.5°	762.9	764.2	783.8	795.4	794.3
125°	826.9	826.1	844.2	856.3	858.4
127.5°	885.3	888.4	901.3	912.7	916.8
130°	946.8	949.9	962.3	973.7	973.1
132.5°	1010.3	1012.1	1020.1	1030.8	1034.2
135°	1064.0	1071.8	1077.3	1087.1	1087.8
137.5°	1125.0	1128.2	1133.9	1141.6	1146.8
140°	1186.0	1187.9	1188.6	1197.4	1200.0
142.5°	1241.1	1243.7	1241.6	1250.1	1253.2
145°	1291.7	1296.1	1297.4	1300.7	1299.9
147.5°	1343.6	1349.3	1348.0	1347.5	1349.3
150°	1390.3	1394.7	1394.7	1394.7	1393.4
152.5°	1433.6	1436.2	1437.5	1441.4	1437.5
155°	1479.0	1479.0	1477.7	1482.9	1477.7
157.5°	1517.9	1515.3	1515.3	1519.2	1515.3
160°	1551.6	1550.3	1549.0	1552.9	1546.5
162.5°	1582.8	1578.9	1577.6	1585.4	1578.9
165°	1610.0	1606.1	1603.5	1611.3	1606.1
167.5°	1632.1	1626.9	1626.9	1634.7	1626.9
170°	1650.2	1643.8	1645.1	1652.8	1643.8
172.5°	1663.2	1658.0	1658.0	1667.1	1658.0
175°	1674.9	1668.4	1667.1	1676.2	1667.1
177.5°	1680.1	1673.6	1673.6	1682.7	1672.3
180°	1677.5	1677.5	1677.5	1677.5	1677.5

(END OF REPORT)