

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: P1033539

Luminaire Tested: S124DIW-B575D1050UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033539
REPORT IS A COMBINATION OF REPORTS P997643 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B575D1050UB30-4F0-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

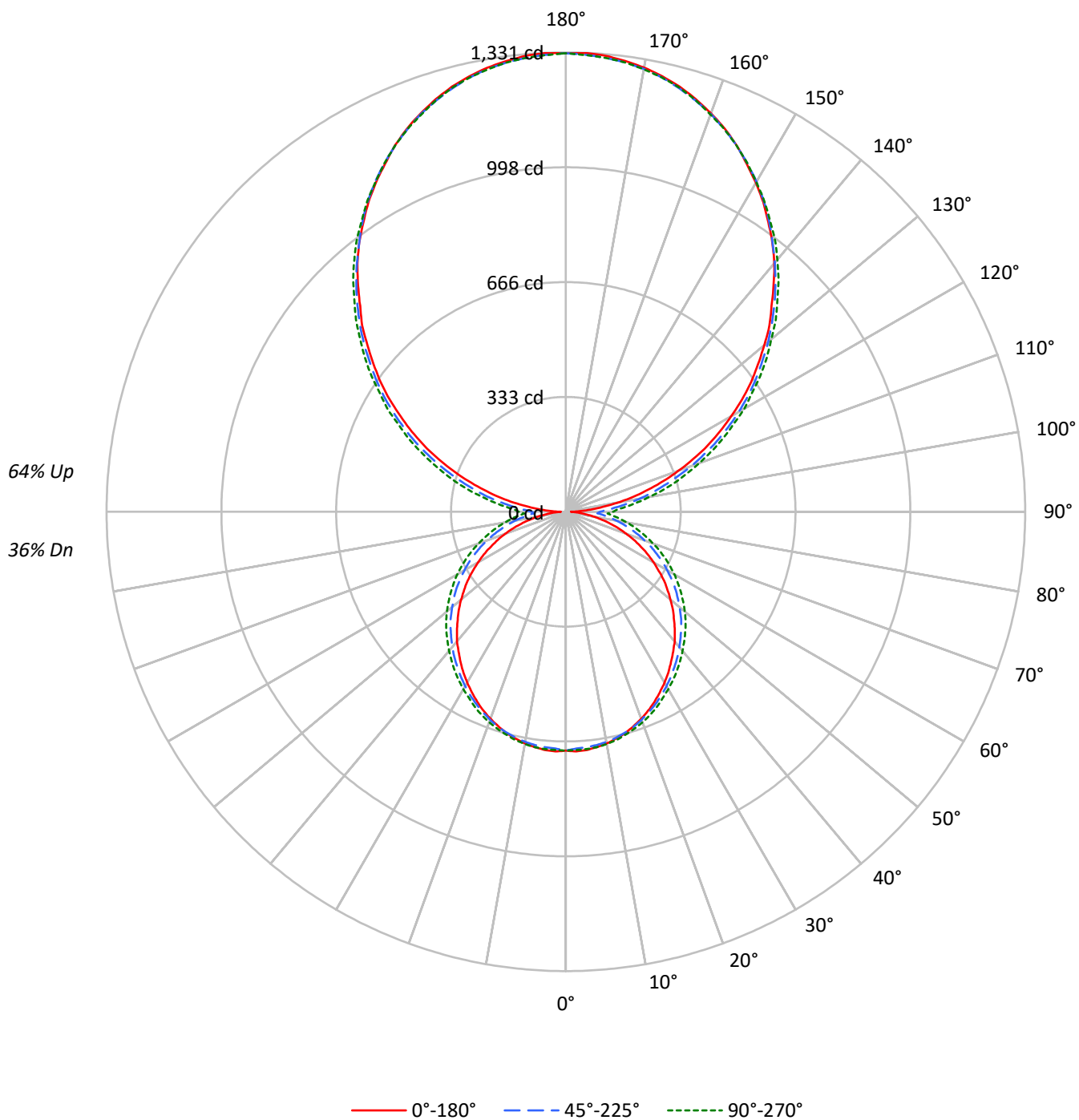
Lumens per Lamp: N/A
Luminaire Lumens: 6048.0 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 55.5
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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	104	104	104	104	94	94	94	94	76	76	76	59	59	59	43	43	43	36		
1	94	89	85	82	85	81	77	74	65	63	60	51	49	47	37	36	35	29		
2	85	78	71	66	77	70	65	60	57	53	49	44	41	39	32	31	29	24		
3	77	68	60	55	70	62	55	50	50	45	41	39	35	33	28	26	24	20		
4	71	60	52	46	64	54	47	42	44	39	35	34	31	28	25	23	21	17		
5	65	53	45	39	58	48	41	36	39	34	30	30	27	24	23	20	18	14		
6	60	47	39	34	54	43	36	31	35	30	26	27	24	21	20	18	16	12		
7	55	43	35	29	49	39	32	27	32	26	22	25	21	18	19	16	14	11		
8	51	39	31	26	46	35	28	24	29	24	20	23	19	16	17	14	12	10		
9	47	35	28	23	43	32	25	21	26	21	18	21	17	14	16	13	11	9		
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8		

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: 5056 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.6	1.1
10°-20°	187.8	3.1
20°-30°	284.0	4.7
30°-40°	343.6	5.7
40°-50°	363.2	6.0
50°-60°	341.9	5.7
60°-70°	283.7	4.7
70°-80°	199.1	3.3
80°-90°	115.1	1.9
90°-100°	153.4	2.5
100°-110°	308.9	5.1
110°-120°	473.8	7.8
120°-130°	599.8	9.9
130°-140°	660.8	10.9
140°-150°	643.1	10.6
150°-160°	539.6	8.9
160°-170°	359.0	5.9
170°-180°	125.7	2.1
0°-30°	537.4	8.9
0°-40°	881.0	14.6
0°-60°	1586.1	26.2
0°-90°	2183.9	36.1
90°-120°	936.1	15.5
90°-150°	2839.8	47.0
90°-180°	3864.0	63.9
0°-180°	6048.0	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	58	99	128	136	13
95°	72	106	146	170	176	75
105°	246	263	296	318	327	262
115°	453	460	482	498	503	447
125°	656	655	673	686	688	585
135°	843	849	855	865	866	652
145°	1023	1026	1028	1031	1031	640
155°	1171	1171	1170	1174	1170	539
165°	1275	1272	1270	1276	1272	360
175°	1326	1321	1320	1328	1320	126
180°	1328	1328	1328	1328	1328	

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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°	15.5	57.8	99.3	128.0	136.2
92.5°	38.3	78.8	117.3	142.1	149.3
95°	71.7	106.5	145.5	169.5	176.5
97.5°	107.9	138.7	178.6	202.9	209.9
100°	152.3	176.7	216.1	239.1	244.5
102.5°	199.6	217.7	255.4	278.6	285.9
105°	246.4	262.9	295.6	318.1	327.4
107.5°	296.7	310.9	339.1	362.5	367.0
110°	347.3	360.2	386.3	402.1	411.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	399.9	409.2	432.8	449.8	456.0
115°	452.6	459.6	482.3	498.4	502.8
117.5°	502.9	507.6	529.8	543.0	546.1
120°	552.6	559.0	578.4	588.8	597.0
122.5°	605.0	606.0	625.9	638.3	638.6
125°	655.5	654.7	673.1	685.8	688.4
127.5°	701.8	704.1	717.5	729.5	733.8
130°	750.3	752.6	765.0	776.9	777.4
132.5°	800.6	801.9	810.2	821.3	825.0
135°	843.0	849.2	854.7	865.0	866.5
137.5°	891.3	893.7	898.8	907.3	912.3
140°	939.6	940.9	941.6	950.7	953.6
142.5°	983.1	985.1	983.3	991.8	994.9
145°	1023.1	1026.4	1027.5	1031.0	1031.1
147.5°	1064.2	1068.6	1067.5	1067.3	1069.4
150°	1101.2	1104.5	1104.5	1104.5	1103.5
152.5°	1135.4	1137.4	1138.4	1141.5	1138.4
155°	1171.3	1171.3	1170.3	1174.4	1170.3
157.5°	1202.1	1200.1	1200.1	1203.2	1200.1
160°	1228.9	1227.8	1226.8	1229.9	1224.7
162.5°	1253.5	1250.4	1249.4	1255.6	1250.4
165°	1275.1	1272.0	1270.0	1276.1	1272.0
167.5°	1292.6	1288.5	1288.5	1294.6	1288.5
170°	1306.9	1301.8	1302.8	1309.0	1301.8
172.5°	1317.2	1313.1	1313.1	1320.3	1313.1
175°	1326.5	1321.3	1320.3	1327.5	1320.3
177.5°	1330.6	1325.4	1325.4	1332.6	1324.4
180°	1328.5	1328.5	1328.5	1328.5	1328.5

(END OF REPORT)