

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: P1025258

Luminaire Tested: S124DIP-B350D1035UB27-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1025258
REPORT IS A COMBINATION OF REPORTS P995723 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIP-B350D1035UB27-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

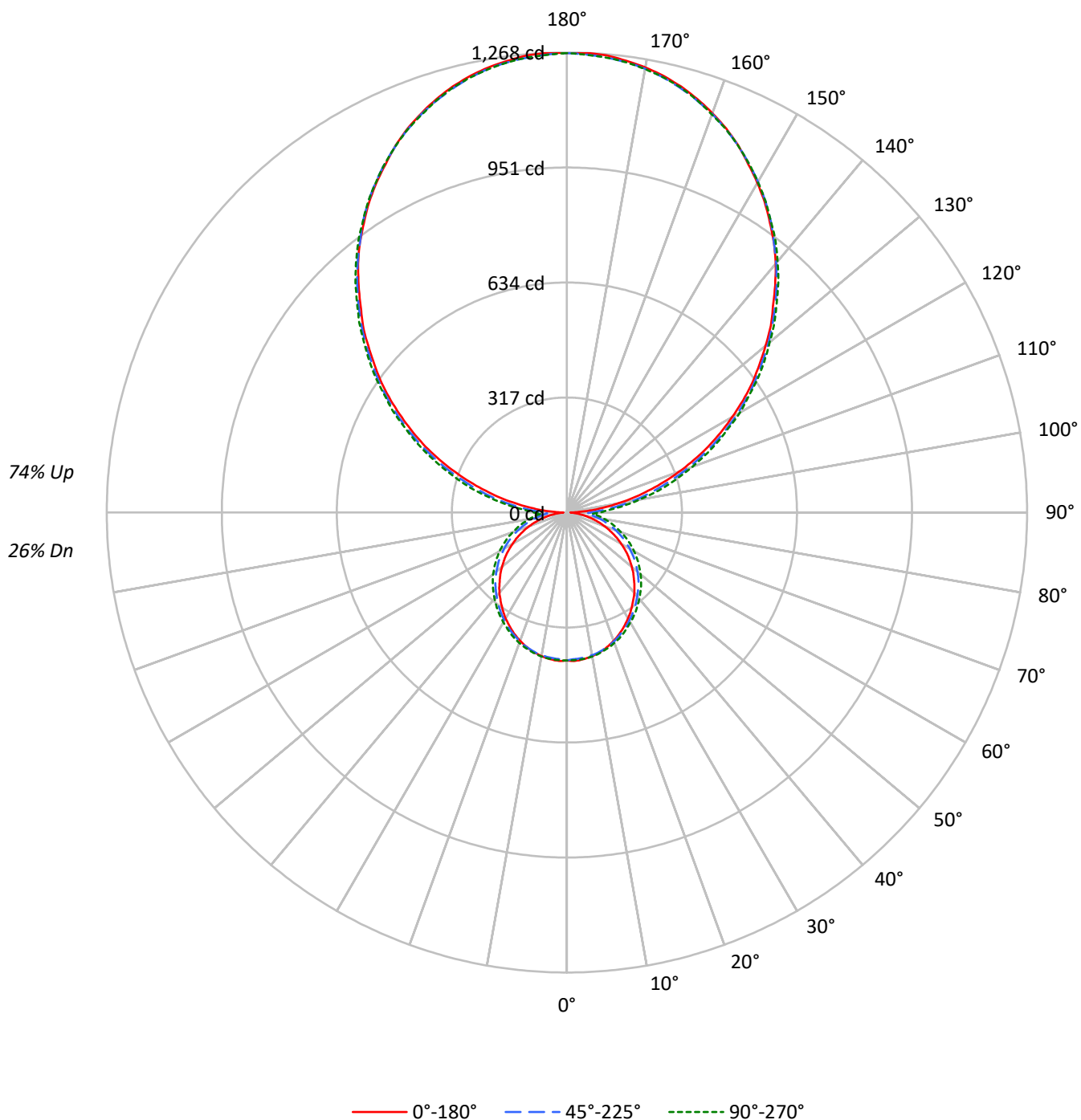
Lumens per Lamp: N/A
Luminaire Lumens: 4908.0 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 41.5
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	50	30	10
RCR																				
0	101	101	101	101	91	91	91	91	70	70	70	51	51	51	34	34	34			26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	29	28			21
2	83	76	70	65	74	68	63	58	53	49	46	39	36	34	26	24	23			17
3	76	67	59	54	67	60	53	48	46	42	38	34	31	29	22	21	19			14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16			12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14			10
6	58	46	39	33	52	42	35	30	33	28	24	24	21	18	16	14	12			9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	15	13	11			8
8	50	38	30	25	44	34	27	23	27	22	18	20	16	14	13	11	10			7
9	46	34	27	22	41	31	24	20	24	20	16	18	15	12	12	10	9			6
10	43	31	24	20	38	28	22	18	22	18	14	17	13	11	11	9	8			6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3327	3327	3327
5°	3336	3240	3246
10°	3314	3176	3168
15°	3283	3105	3079
20°	3238	3027	2993
25°	3186	2942	2900
30°	3130	2857	2805
35°	3066	2770	2720
40°	3015	2687	2633
45°	2940	2609	2555
50°	2877	2520	2474
55°	2810	2435	2380
60°	2707	2328	2292
65°	2593	2214	2186
70°	2456	2082	2062
75°	2265	1937	1946
80°	2048	1789	1822
85°	1761	1640	1723

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 90°

Luminance: 3327 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	0.8
10°-20°	110.8	2.3
20°-30°	167.5	3.4
30°-40°	202.6	4.1
40°-50°	214.2	4.4
50°-60°	201.6	4.1
60°-70°	167.3	3.4
70°-80°	117.4	2.4
80°-90°	68.9	1.4
90°-100°	121.9	2.5
100°-110°	276.5	5.6
110°-120°	439.7	9.0
120°-130°	565.0	11.5
130°-140°	627.0	12.8
140°-150°	612.5	12.5
150°-160°	514.4	10.5
160°-170°	342.3	7.0
170°-180°	119.8	2.4
0°-30°	316.9	6.5
0°-40°	519.5	10.6
0°-60°	935.3	19.1
0°-90°	1288.8	26.3
90°-120°	838.1	17.1
90°-150°	2642.7	53.8
90°-180°	3619.0	73.7
0°-180°	4908.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	408	408	408	408	408	
5°	408	407	404	408	407	39
15°	392	392	391	395	394	110
25°	358	361	362	367	368	165
35°	313	319	324	330	331	196
45°	261	270	279	286	289	202
55°	205	214	228	237	240	182
65°	142	156	172	183	187	140
75°	79	96	115	128	132	84
85°	24	43	64	78	82	25
90°	10	39	67	86	92	9
95°	65	89	114	130	134	68
105°	232	242	263	278	284	247
115°	430	434	447	456	458	424
125°	624	623	634	641	641	556
135°	803	809	812	818	817	622
145°	975	979	980	981	980	610
155°	1117	1117	1116	1120	1116	514
165°	1216	1213	1211	1217	1213	343
175°	1265	1260	1259	1266	1259	120
180°	1267	1267	1267	1267	1267	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	408.0	408.0	408.0	408.0	408.0
2.5°	409.8	408.4	404.8	408.0	407.5
5°	408.4	407.1	403.9	407.5	407.1
7.5°	405.7	404.8	402.0	406.2	405.7
10°	402.0	401.6	399.3	403.4	403.0
12.5°	397.0	397.0	395.7	399.3	399.3
15°	391.5	392.0	390.6	394.7	394.3
17.5°	384.2	385.6	385.1	389.3	388.8
20°	376.5	377.8	378.3	382.9	382.9
22.5°	367.8	369.6	370.5	375.1	376.0
25°	358.2	360.9	362.3	367.3	367.8
27.5°	347.7	351.8	353.6	358.2	358.6
30°	337.2	340.8	344.0	349.1	350.0
32.5°	325.8	330.3	334.0	339.9	340.8
35°	313.4	318.9	323.5	329.9	331.2
37.5°	301.1	307.5	313.0	319.4	320.7
40°	289.2	295.1	301.5	308.4	310.2
42.5°	275.5	282.3	290.1	297.9	299.3
45°	261.3	270.0	278.7	286.5	288.7
47.5°	248.1	256.8	266.8	274.6	277.3
50°	233.5	243.5	253.6	262.7	265.4
52.5°	218.8	228.9	240.8	249.9	252.7
55°	204.7	214.3	228.0	237.1	239.9
57.5°	188.7	200.6	213.8	224.8	227.1
60°	173.2	185.0	200.1	210.6	214.3
62.5°	158.1	171.3	186.4	196.9	200.6
65°	141.6	156.3	171.8	183.2	186.9
67.5°	126.1	141.6	158.1	169.5	173.2
70°	110.1	125.6	143.0	155.3	158.5
72.5°	94.6	110.6	129.3	141.2	144.8
75°	78.6	95.5	114.7	127.5	131.6
77.5°	63.5	81.3	101.4	114.2	118.8
80°	49.8	68.1	88.2	101.9	105.5
82.5°	36.1	55.3	75.4	89.5	93.7
85°	24.2	43.4	64.0	77.7	82.2
87.5°	15.1	33.8	53.9	67.2	71.3
90°	10.2	39.3	66.8	85.9	91.5
92.5°	32.4	61.0	85.6	101.3	105.9
95°	64.7	88.6	114.1	129.5	133.6
97.5°	99.5	120.6	147.2	162.9	167.1
100°	142.1	158.0	184.6	198.9	202.1
102.5°	187.2	198.3	223.4	238.3	242.9
105°	232.3	242.4	263.3	277.7	284.2
107.5°	280.3	289.1	306.1	321.4	323.6
110°	328.9	337.3	352.2	360.7	367.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	379.4	384.9	398.0	408.0	411.7
115°	429.8	434.0	446.6	455.7	457.9
117.5°	477.8	480.6	493.3	500.0	500.6
120°	525.4	530.7	541.0	545.2	550.8
122.5°	575.3	576.3	587.6	593.9	592.2
125°	623.8	623.4	633.8	640.6	641.3
127.5°	667.9	670.4	677.6	683.8	686.0
130°	714.5	717.0	724.3	730.5	729.4
132.5°	762.5	764.0	768.5	774.3	776.1
135°	803.2	809.0	812.2	817.6	817.4
137.5°	849.2	851.7	855.5	859.4	862.6
140°	895.2	896.8	897.2	902.2	903.4
142.5°	937.0	938.9	937.4	942.4	944.3
145°	975.2	978.6	979.6	981.3	980.2
147.5°	1014.4	1018.7	1017.8	1017.3	1018.1
150°	1049.6	1053.0	1053.0	1053.0	1052.1
152.5°	1082.4	1084.4	1085.4	1088.3	1085.4
155°	1116.7	1116.7	1115.7	1119.6	1115.7
157.5°	1146.1	1144.1	1144.1	1147.1	1144.1
160°	1171.6	1170.6	1169.6	1172.5	1167.6
162.5°	1195.1	1192.1	1191.2	1197.0	1192.1
165°	1215.6	1212.7	1210.7	1216.6	1212.7
167.5°	1232.3	1228.4	1228.4	1234.3	1228.4
170°	1246.0	1241.1	1242.1	1248.0	1241.1
172.5°	1255.8	1251.9	1251.9	1258.7	1251.9
175°	1264.6	1259.7	1258.7	1265.6	1258.7
177.5°	1268.5	1263.6	1263.6	1270.5	1262.7
180°	1266.6	1266.6	1266.6	1266.6	1266.6

(END OF REPORT)