

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: P1026233

Luminaire Tested: S124RDIP-B350D1035UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026233
REPORT IS A COMBINATION OF REPORTS P999223 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D1035UB27-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

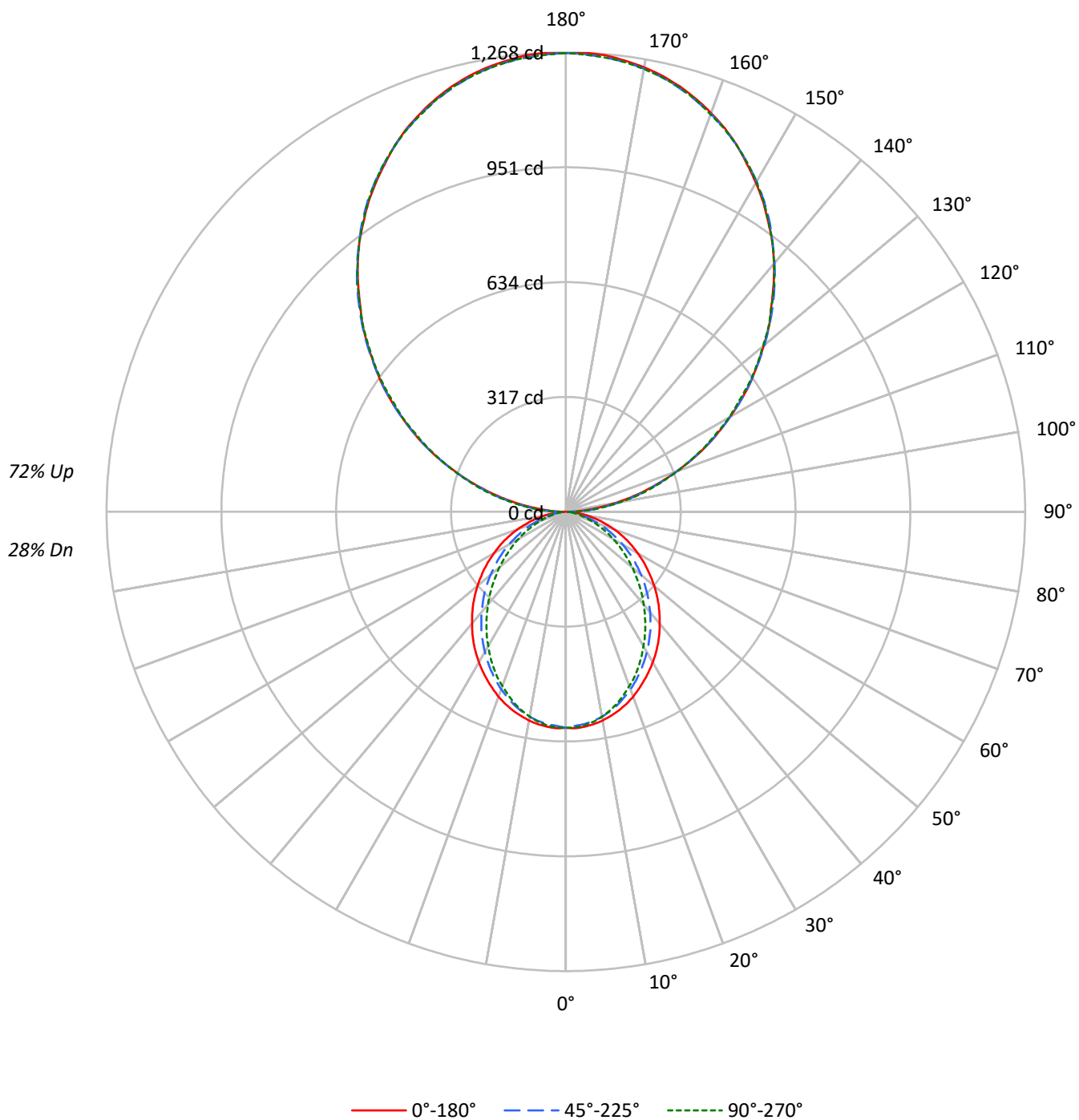
Lumens per Lamp: N/A
Luminaire Lumens: 4895.0 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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
RCR																	
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36
1	93	89	85	82	83	80	77	74	63	60	59	47	45	44	32	31	31
2	85	78	72	67	76	70	65	61	55	52	49	41	39	37	28	27	26
3	77	68	61	56	69	62	56	51	48	44	41	36	34	32	25	24	22
4	71	61	53	47	63	54	48	43	43	39	35	33	29	27	23	21	19
5	65	54	46	40	58	49	42	37	38	34	30	29	26	23	20	18	17
6	60	48	40	35	53	44	37	32	35	30	26	26	23	20	19	16	15
7	55	43	36	30	49	39	33	28	31	26	23	24	21	18	17	15	13
8	51	39	32	27	46	36	29	25	28	24	20	22	18	16	16	13	12
9	47	36	29	24	42	32	26	22	26	21	18	20	17	14	14	12	11
10	44	33	26	21	40	30	24	20	24	19	16	18	15	13	13	11	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4863	4863	4863
5°	4864	4719	4719
10°	4823	4570	4516
15°	4757	4384	4275
20°	4670	4173	4001
25°	4561	3945	3733
30°	4454	3713	3432
35°	4338	3477	3139
40°	4200	3223	2837
45°	4069	2971	2538
50°	3921	2695	2234
55°	3761	2414	1921
60°	3583	2114	1612
65°	3412	1772	1313
70°	3168	1410	1004
75°	2856	1025	702
80°	2385	631	504
85°	1797	364	277

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.1	1.1
10°-20°	156.4	3.2
20°-30°	225.7	4.6
30°-40°	255.9	5.2
40°-50°	247.0	5.0
50°-60°	205.4	4.2
60°-70°	141.8	2.9
70°-80°	71.6	1.5
80°-90°	20.9	0.4
90°-100°	82.6	1.7
100°-110°	247.3	5.1
110°-120°	420.1	8.6
120°-130°	554.0	11.3
130°-140°	622.3	12.7
140°-150°	611.6	12.5
150°-160°	514.4	10.5
160°-170°	342.3	7.0
170°-180°	119.8	2.4
0°-30°	438.2	9.0
0°-40°	694.0	14.2
0°-60°	1146.4	23.4
0°-90°	1380.7	28.2
90°-120°	749.9	15.3
90°-150°	2537.8	51.8
90°-180°	3514.0	71.8
0°-180°	4895.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	596	596	596	596	596	
5°	596	594	588	593	592	57
15°	567	563	552	551	548	160
25°	513	505	486	478	474	236
35°	443	429	406	390	382	277
45°	362	345	317	295	287	279
55°	274	256	226	202	194	245
65°	186	167	138	118	112	184
75°	99	82	61	50	48	105
85°	25	16	14	13	13	27
90°	3	14	22	27	29	6
95°	59	68	74	77	77	64
105°	228	229	233	236	239	242
115°	427	427	425	424	423	421
125°	622	622	621	619	617	554
135°	802	808	808	806	803	621
145°	975	979	980	979	976	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°	596.4	596.4	596.4	596.4	596.4
2.5°	598.2	596.4	591.4	596.4	595.9
5°	595.5	593.6	588.2	592.7	591.8
7.5°	591.4	589.5	582.7	585.9	584.5
10°	585.0	582.7	574.5	576.3	574.5
12.5°	576.7	574.0	564.0	564.9	562.1
15°	567.2	563.0	551.6	550.7	547.5
17.5°	556.2	550.3	537.0	534.7	530.2
20°	543.0	537.0	521.5	517.8	511.9
22.5°	528.3	521.5	504.6	498.7	494.1
25°	512.8	504.6	485.9	478.1	473.5
27.5°	496.8	486.8	467.1	458.0	451.6
30°	479.9	468.5	447.1	435.6	428.3
32.5°	462.1	448.9	426.5	412.8	406.0
35°	443.4	428.8	406.0	390.4	382.2
37.5°	423.8	408.7	383.6	366.7	358.5
40°	402.8	387.7	361.7	342.5	334.3
42.5°	382.7	366.7	339.3	319.7	311.0
45°	361.7	344.8	317.4	295.0	286.8
47.5°	340.2	322.8	294.5	271.2	262.1
50°	318.3	300.5	271.2	248.4	239.7
52.5°	295.9	278.6	248.4	225.1	216.0
55°	274.0	255.7	226.0	202.3	193.6
57.5°	252.5	233.3	204.1	179.9	173.5
60°	229.2	211.0	181.7	158.0	150.7
62.5°	208.2	189.1	158.9	137.5	132.0
65°	186.3	166.7	137.5	117.8	112.3
67.5°	163.5	144.8	117.4	100.0	93.6
70°	142.0	122.8	96.8	81.7	77.2
72.5°	119.2	102.3	78.1	65.8	61.6
75°	99.1	82.2	60.7	50.2	47.5
77.5°	78.1	63.5	45.2	37.9	37.0
80°	58.0	44.8	31.1	29.7	29.2
82.5°	40.6	28.8	22.4	21.5	21.0
85°	24.7	15.5	14.2	13.2	13.2
87.5°	10.5	6.8	6.4	5.9	6.4
90°	2.9	13.7	21.6	27.4	29.4
92.5°	25.5	38.2	43.1	46.0	47.0
95°	58.8	67.6	74.4	77.4	77.4
97.5°	94.0	101.9	109.7	113.6	113.6
100°	137.1	141.1	149.9	151.8	151.8
102.5°	182.2	183.2	191.0	194.0	194.9
105°	228.2	229.2	233.1	236.1	239.0
107.5°	276.2	277.2	278.2	282.1	281.1
110°	325.2	327.2	326.2	324.2	327.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	376.2	376.2	374.2	374.2	374.2
115°	427.1	427.1	425.1	424.2	423.2
117.5°	475.1	475.1	474.1	471.2	468.2
120°	523.1	527.0	524.1	519.2	521.1
122.5°	573.0	574.0	573.0	570.1	565.2
125°	622.0	622.0	621.0	619.1	617.1
127.5°	666.1	669.0	667.1	665.1	664.1
130°	713.1	716.1	716.1	714.1	710.2
132.5°	761.1	763.1	762.1	760.1	759.2
135°	802.3	808.1	808.1	806.2	803.2
137.5°	848.3	851.2	853.2	850.3	851.2
140°	894.3	896.3	896.3	895.3	894.3
142.5°	936.5	938.4	937.4	937.4	937.4
145°	974.7	978.6	979.6	978.6	975.6
147.5°	1013.9	1018.7	1017.8	1016.8	1015.8
150°	1049.1	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)