

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: P1026263

Luminaire Tested: S124RDIP-B350D1205UB27-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026263
REPORT IS A COMBINATION OF REPORTS P999263 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D1205UB27-4F0-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

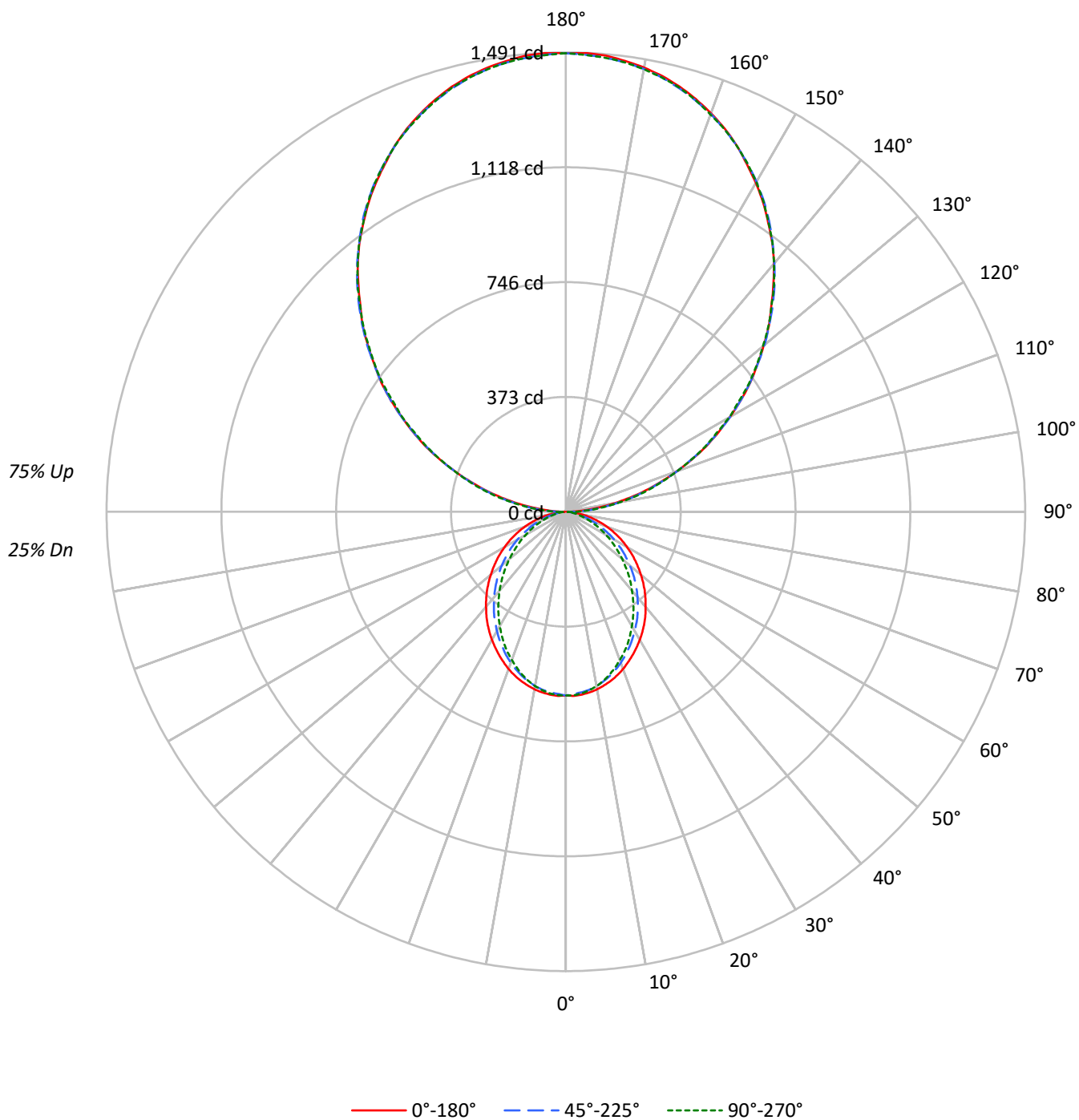
Lumens per Lamp: N/A
Luminaire Lumens: 5511.0 lumens
Efficiency: N/A
Efficacy: 114.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 48
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	101	101	101	101	90	90	90	90	69	69	69	51	51	51	33	33	33
1	92	88	85	81	82	79	76	73	61	59	57	45	43	42	30	29	28
2	84	77	71	66	75	69	64	60	53	50	47	39	37	35	26	25	24
3	77	68	61	55	68	61	55	50	47	43	40	35	32	30	23	22	21
4	70	60	52	47	62	54	47	42	42	37	34	31	28	26	21	19	18
5	64	53	46	40	57	48	41	36	37	33	29	28	25	22	19	17	15
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14
7	55	43	35	30	49	39	32	27	30	26	22	23	20	17	16	14	12
8	51	39	31	26	45	35	29	24	28	23	20	21	18	15	14	12	11
9	47	35	28	23	42	32	26	21	25	21	17	19	16	14	13	11	10
10	44	32	25	21	39	29	23	19	23	19	16	18	14	12	12	10	9

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	1.0
10°-20°	156.4	2.8
20°-30°	225.7	4.1
30°-40°	255.9	4.6
40°-50°	247.0	4.5
50°-60°	205.4	3.7
60°-70°	141.8	2.6
70°-80°	71.6	1.3
80°-90°	21.4	0.4
90°-100°	97.0	1.8
100°-110°	290.6	5.3
110°-120°	493.7	9.0
120°-130°	651.1	11.8
130°-140°	731.2	13.3
140°-150°	718.7	13.0
150°-160°	604.5	11.0
160°-170°	402.2	7.3
170°-180°	140.8	2.6
0°-30°	438.2	8.0
0°-40°	694.0	12.6
0°-60°	1146.4	20.8
0°-90°	1381.2	25.1
90°-120°	881.3	16.0
90°-150°	2982.3	54.1
90°-180°	4130.0	74.9
0°-180°	5511.0	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°	4	16	25	32	34	6
95°	69	79	88	91	91	75
105°	268	269	274	277	281	284
115°	502	502	500	498	497	495
125°	731	731	730	728	725	652
135°	943	950	950	947	944	729
145°	1145	1150	1151	1150	1146	717
155°	1312	1312	1311	1316	1311	604
165°	1429	1425	1423	1430	1425	403
175°	1486	1480	1479	1487	1479	141
180°	1488	1488	1488	1488	1488	

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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°	3.5	16.1	25.3	32.2	34.5
92.5°	29.9	44.9	50.7	54.1	55.3
95°	69.1	79.4	87.5	90.9	90.9
97.5°	110.5	119.7	128.9	133.5	133.5
100°	161.2	165.8	176.1	178.4	178.4
102.5°	214.1	215.3	224.5	227.9	229.1
105°	268.2	269.4	274.0	277.4	280.9
107.5°	324.6	325.8	326.9	331.5	330.4
110°	382.2	384.5	383.3	381.0	384.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	442.0	442.0	439.7	439.7	439.7
115°	501.9	501.9	499.6	498.4	497.3
117.5°	558.3	558.3	557.2	553.7	550.2
120°	614.7	619.3	615.9	610.1	612.4
122.5°	673.4	674.6	673.4	670.0	664.2
125°	731.0	731.0	729.8	727.5	725.2
127.5°	782.8	786.2	783.9	781.6	780.5
130°	838.0	841.5	841.5	839.2	834.6
132.5°	894.4	896.7	895.6	893.3	892.1
135°	942.8	949.7	949.7	947.4	943.9
137.5°	996.9	1000.3	1002.6	999.2	1000.3
140°	1051.0	1053.3	1053.3	1052.1	1051.0
142.5°	1100.5	1102.8	1101.6	1101.6	1101.6
145°	1145.4	1150.0	1151.1	1150.0	1146.5
147.5°	1191.4	1197.2	1196.0	1194.9	1193.7
150°	1232.9	1237.5	1237.5	1237.5	1236.3
152.5°	1272.0	1274.3	1275.5	1278.9	1275.5
155°	1312.3	1312.3	1311.1	1315.7	1311.1
157.5°	1346.8	1344.5	1344.5	1348.0	1344.5
160°	1376.8	1375.6	1374.5	1377.9	1372.2
162.5°	1404.4	1400.9	1399.8	1406.7	1400.9
165°	1428.6	1425.1	1422.8	1429.7	1425.1
167.5°	1448.1	1443.5	1443.5	1450.4	1443.5
170°	1464.2	1458.5	1459.6	1466.5	1458.5
172.5°	1475.8	1471.2	1471.2	1479.2	1471.2
175°	1486.1	1480.4	1479.2	1487.3	1479.2
177.5°	1490.7	1485.0	1485.0	1493.0	1483.8
180°	1488.4	1488.4	1488.4	1488.4	1488.4

(END OF REPORT)