

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: P1026264

Luminaire Tested: S124RDIP-B350D1205UB27-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026264
REPORT IS A COMBINATION OF REPORTS P999264 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D1205UB27-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

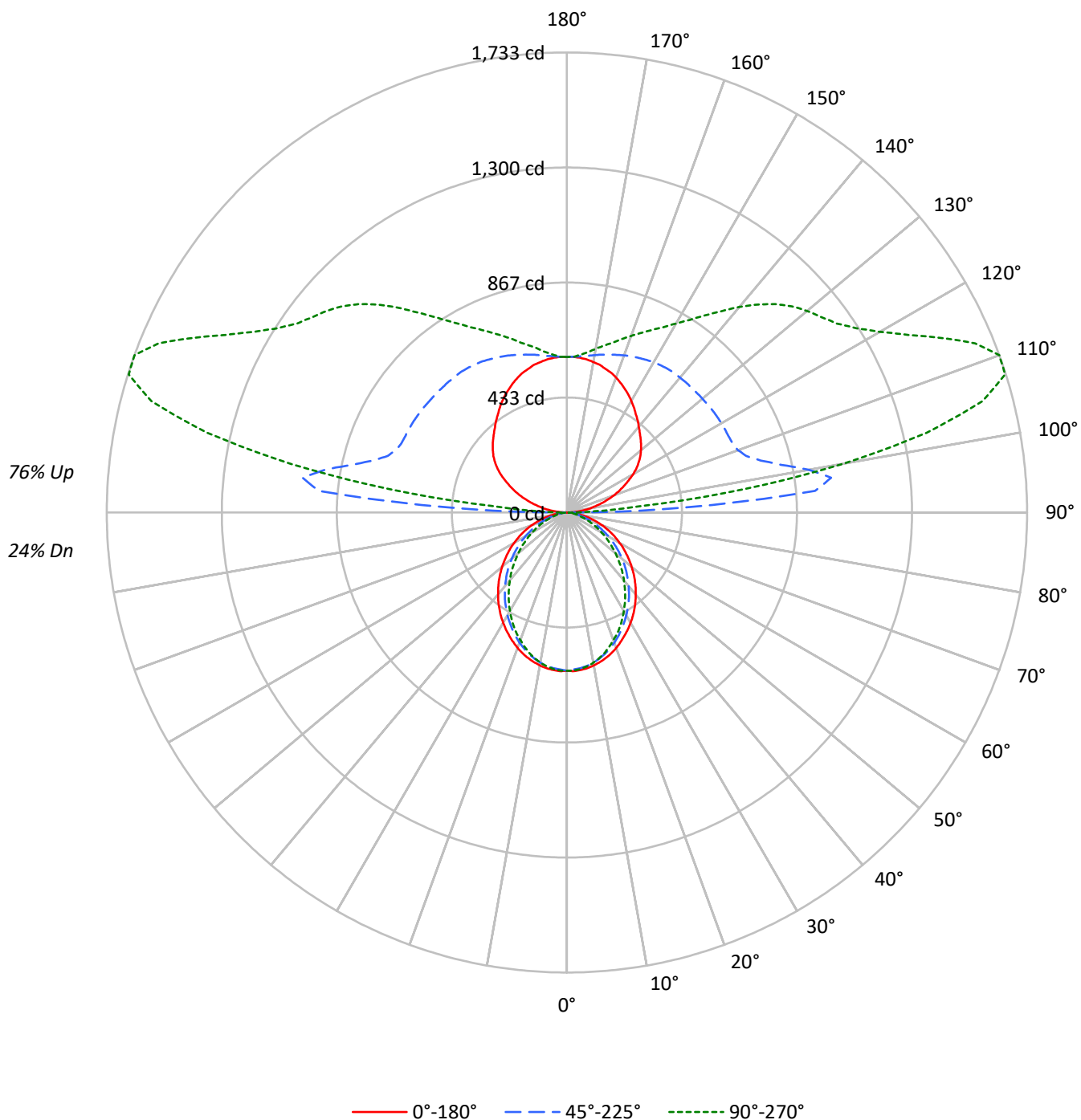
Lumens per Lamp: N/A
Luminaire Lumens: 5656.6 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	50	50	33	33	33
1	92	88	84	81	82	79	75	73	61	59	57	44	43	42	29	28	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	34	32	30	23	21	20
4	70	60	52	47	62	54	47	42	42	37	34	31	28	25	20	19	17
5	64	53	46	40	57	48	41	36	37	33	29	28	24	22	18	17	15
6	59	48	40	34	52	43	36	31	33	29	25	25	22	19	17	15	13
7	54	43	35	30	48	38	32	27	30	26	22	23	19	17	15	13	12
8	50	39	31	26	45	35	28	24	27	23	20	21	17	15	14	12	11
9	47	35	28	23	42	32	26	21	25	21	17	19	16	13	13	11	10
10	44	32	25	21	39	29	23	19	23	19	16	17	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	4.0
30°-40°	255.9	4.5
40°-50°	247.0	4.4
50°-60°	205.4	3.6
60°-70°	141.8	2.5
70°-80°	71.6	1.3
80°-90°	20.4	0.4
90°-100°	435.3	7.7
100°-110°	885.3	15.7
110°-120°	789.1	14.0
120°-130°	662.8	11.7
130°-140°	553.1	9.8
140°-150°	422.4	7.5
150°-160°	296.9	5.2
160°-170°	174.6	3.1
170°-180°	56.8	1.0
0°-30°	438.2	7.7
0°-40°	694.0	12.3
0°-60°	1146.4	20.3
0°-90°	1380.3	24.4
90°-120°	2109.6	37.3
90°-150°	3748.0	66.3
90°-180°	4276.0	75.6
0°-180°	5656.6	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°	1	9	21	23	24	4
95°	38	120	938	464	281	42
105°	135	195	755	1626	1620	143
115°	237	298	674	1294	1555	235
125°	330	392	670	1101	1241	294
135°	393	467	664	977	1110	303
145°	452	518	661	824	906	284
155°	515	555	642	728	759	237
165°	561	578	616	652	662	158
175°	585	586	591	599	596	56
180°	586	586	586	586	586	

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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°	1.2	9.2	20.7	23.0	24.2
92.5°	16.1	88.6	451.3	149.1	104.8
95°	38.0	119.7	938.2	464.5	280.9
97.5°	63.3	132.4	1003.8	948.6	674.6
100°	87.5	149.6	925.6	1312.4	1055.6
102.5°	110.5	170.4	827.7	1540.3	1387.2
105°	134.7	195.1	755.2	1626.1	1619.7
107.5°	161.2	220.4	708.0	1600.2	1730.3
110°	187.6	245.8	686.1	1508.1	1732.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.0	271.1	675.8	1395.2	1664.6
115°	237.1	297.6	673.5	1294.0	1555.3
117.5°	262.5	322.4	672.3	1214.6	1448.2
120°	287.8	346.5	672.3	1161.0	1360.7
122.5°	310.8	370.2	671.1	1125.8	1291.6
125°	330.4	392.5	670.0	1101.2	1241.0
127.5°	348.8	413.3	667.7	1077.6	1208.8
130°	363.8	433.4	666.5	1049.3	1181.1
132.5°	378.7	450.7	665.4	1015.9	1150.0
135°	392.6	467.4	664.2	977.4	1109.8
137.5°	406.4	481.8	664.2	935.9	1062.6
140°	421.3	495.0	663.1	895.6	1010.8
142.5°	437.5	507.1	663.1	858.2	955.5
145°	452.4	518.0	660.8	824.2	906.0
147.5°	469.7	528.4	657.3	796.0	859.9
150°	485.8	538.2	653.9	770.2	822.0
152.5°	500.8	547.4	648.1	748.2	787.4
155°	514.6	555.4	642.4	727.6	758.6
157.5°	528.4	562.9	636.6	708.0	732.2
160°	541.1	569.2	629.7	688.4	708.0
162.5°	552.6	574.4	622.8	669.4	685.0
165°	560.6	577.9	615.9	652.2	661.9
167.5°	569.8	580.8	609.0	637.2	643.5
170°	575.6	583.1	602.1	622.2	626.3
172.5°	581.4	584.8	595.2	609.0	609.0
175°	584.8	586.0	590.6	598.6	596.3
177.5°	587.1	586.0	587.1	591.2	587.1
180°	586.0	586.0	586.0	586.0	586.0

(END OF REPORT)