

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: P1026239

Luminaire Tested: S124RDIP-B350D1035UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026239
REPORT IS A COMBINATION OF REPORTS P999239 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B350D1035UB30-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

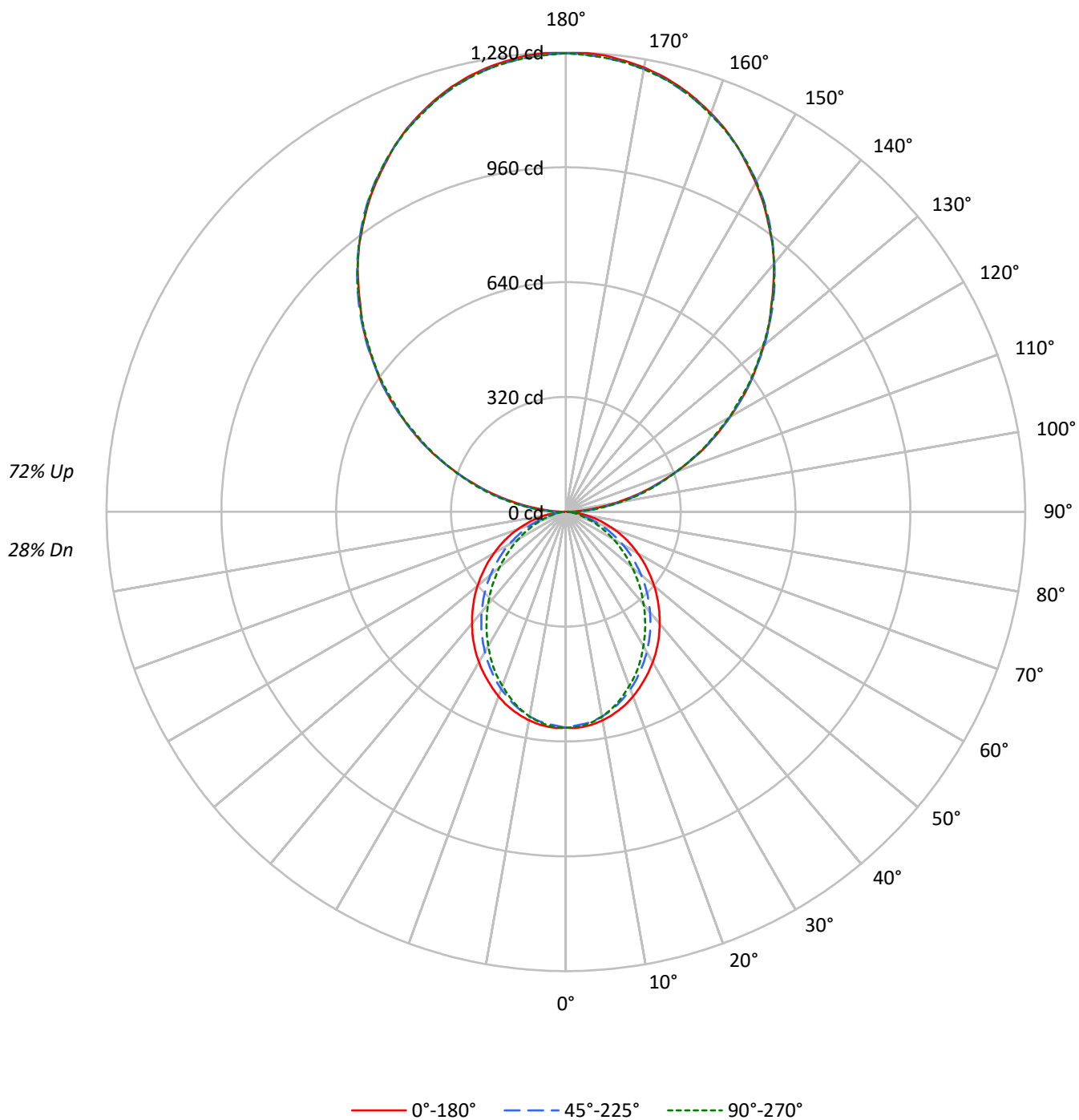
Lumens per Lamp: N/A
Luminaire Lumens: 4938.0 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	43	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°	4906	4906	4906
5°	4906	4760	4761
10°	4865	4610	4555
15°	4798	4422	4312
20°	4710	4209	4036
25°	4601	3979	3766
30°	4493	3744	3463
35°	4376	3507	3166
40°	4236	3251	2862
45°	4104	2996	2560
50°	3956	2719	2254
55°	3794	2435	1938
60°	3614	2133	1626
65°	3441	1786	1325
70°	3197	1423	1012
75°	2882	1035	708
80°	2406	635	510
85°	1812	366	281

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 4104 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	1.1
10°-20°	157.7	3.2
20°-30°	227.7	4.6
30°-40°	258.1	5.2
40°-50°	249.2	5.0
50°-60°	207.2	4.2
60°-70°	143.0	2.9
70°-80°	72.3	1.5
80°-90°	21.1	0.4
90°-100°	83.3	1.7
100°-110°	249.5	5.1
110°-120°	423.8	8.6
120°-130°	558.9	11.3
130°-140°	627.7	12.7
140°-150°	617.0	12.5
150°-160°	518.9	10.5
160°-170°	345.3	7.0
170°-180°	120.9	2.4
0°-30°	442.0	9.0
0°-40°	700.1	14.2
0°-60°	1156.4	23.4
0°-90°	1392.7	28.2
90°-120°	756.6	15.3
90°-150°	2560.2	51.8
90°-180°	3545.0	71.8
0°-180°	4938.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	602	602	602	602	602	
5°	601	599	593	598	597	57
15°	572	568	556	556	552	161
25°	517	509	490	482	478	238
35°	447	432	410	394	386	280
45°	365	348	320	298	289	281
55°	276	258	228	204	195	247
65°	188	168	139	119	113	186
75°	100	83	61	51	48	105
85°	25	16	14	13	13	27
90°	3	14	22	28	30	6
95°	59	68	75	78	78	64
105°	230	231	235	238	241	244
115°	431	431	429	428	427	425
125°	628	628	626	624	623	559
135°	809	815	815	813	810	626
145°	983	987	988	987	984	615
155°	1126	1126	1126	1130	1126	518
165°	1226	1223	1221	1227	1223	346
175°	1276	1271	1270	1277	1270	121
180°	1278	1278	1278	1278	1278	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	601.6	601.6	601.6	601.6	601.6
2.5°	603.4	601.6	596.5	601.6	601.1
5°	600.7	598.8	593.3	597.9	597.0
7.5°	596.5	594.7	587.8	591.0	589.6
10°	590.1	587.8	579.5	581.3	579.5
12.5°	581.8	579.0	568.9	569.8	567.0
15°	572.1	567.9	556.4	555.5	552.3
17.5°	561.0	555.1	541.7	539.4	534.8
20°	547.7	541.7	526.0	522.3	516.4
22.5°	532.9	526.0	509.0	503.0	498.4
25°	517.3	509.0	490.1	482.3	477.7
27.5°	501.2	491.0	471.2	462.0	455.6
30°	484.1	472.6	450.9	439.4	432.1
32.5°	466.2	452.8	430.2	416.4	409.5
35°	447.3	432.5	409.5	393.8	385.5
37.5°	427.5	412.3	386.9	369.9	361.6
40°	406.3	391.1	364.8	345.5	337.2
42.5°	386.0	369.9	342.2	322.4	313.7
45°	364.8	347.8	320.1	297.6	289.3
47.5°	343.2	325.7	297.1	273.6	264.4
50°	321.1	303.1	273.6	250.6	241.8
52.5°	298.5	281.0	250.6	227.1	217.9
55°	276.4	257.9	228.0	204.1	195.3
57.5°	254.7	235.4	205.9	181.5	175.0
60°	231.2	212.8	183.3	159.4	152.0
62.5°	210.0	190.7	160.3	138.6	133.1
65°	187.9	168.1	138.6	118.8	113.3
67.5°	164.9	146.0	118.4	100.9	94.4
70°	143.3	123.9	97.7	82.5	77.8
72.5°	120.2	103.2	78.8	66.3	62.2
75°	100.0	82.9	61.3	50.7	47.9
77.5°	78.8	64.0	45.6	38.2	37.3
80°	58.5	45.1	31.3	29.9	29.5
82.5°	41.0	29.0	22.6	21.6	21.2
85°	24.9	15.7	14.3	13.4	13.4
87.5°	10.6	6.9	6.4	6.0	6.4
90°	3.0	13.8	21.7	27.7	29.6
92.5°	25.7	38.5	43.5	46.4	47.4
95°	59.3	68.2	75.1	78.1	78.1
97.5°	94.9	102.8	110.7	114.6	114.6
100°	138.3	142.3	151.2	153.2	153.2
102.5°	183.8	184.8	192.7	195.7	196.7
105°	230.3	231.2	235.2	238.2	241.1
107.5°	278.7	279.7	280.6	284.6	283.6
110°	328.1	330.1	329.1	327.1	330.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	379.5	379.5	377.5	377.5	377.5
115°	430.9	430.9	428.9	427.9	426.9
117.5°	479.3	479.3	478.3	475.3	472.4
120°	527.7	531.7	528.7	523.7	525.7
122.5°	578.1	579.1	578.1	575.1	570.2
125°	627.5	627.5	626.5	624.5	622.6
127.5°	672.0	674.9	673.0	671.0	670.0
130°	719.4	722.4	722.4	720.4	716.4
132.5°	767.8	769.8	768.8	766.8	765.9
135°	809.3	815.3	815.3	813.3	810.3
137.5°	855.8	858.7	860.7	857.8	858.7
140°	902.2	904.2	904.2	903.2	902.2
142.5°	944.7	946.7	945.7	945.7	945.7
145°	983.3	987.2	988.2	987.2	984.2
147.5°	1022.8	1027.7	1026.7	1025.8	1024.8
150°	1058.4	1062.3	1062.3	1062.3	1061.3
152.5°	1092.0	1093.9	1094.9	1097.9	1094.9
155°	1126.5	1126.5	1125.6	1129.5	1125.6
157.5°	1156.2	1154.2	1154.2	1157.2	1154.2
160°	1181.9	1180.9	1179.9	1182.9	1177.9
162.5°	1205.6	1202.6	1201.7	1207.6	1202.6
165°	1226.4	1223.4	1221.4	1227.3	1223.4
167.5°	1243.2	1239.2	1239.2	1245.1	1239.2
170°	1257.0	1252.1	1253.0	1259.0	1252.1
172.5°	1266.9	1262.9	1262.9	1269.8	1262.9
175°	1275.8	1270.8	1269.8	1276.8	1269.8
177.5°	1279.7	1274.8	1274.8	1281.7	1273.8
180°	1277.7	1277.7	1277.7	1277.7	1277.7

(END OF REPORT)