

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: P1026629

Luminaire Tested: S124RDIP-B795D590UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026629
REPORT IS A COMBINATION OF REPORTS P999759 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D590UB30-4F0-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

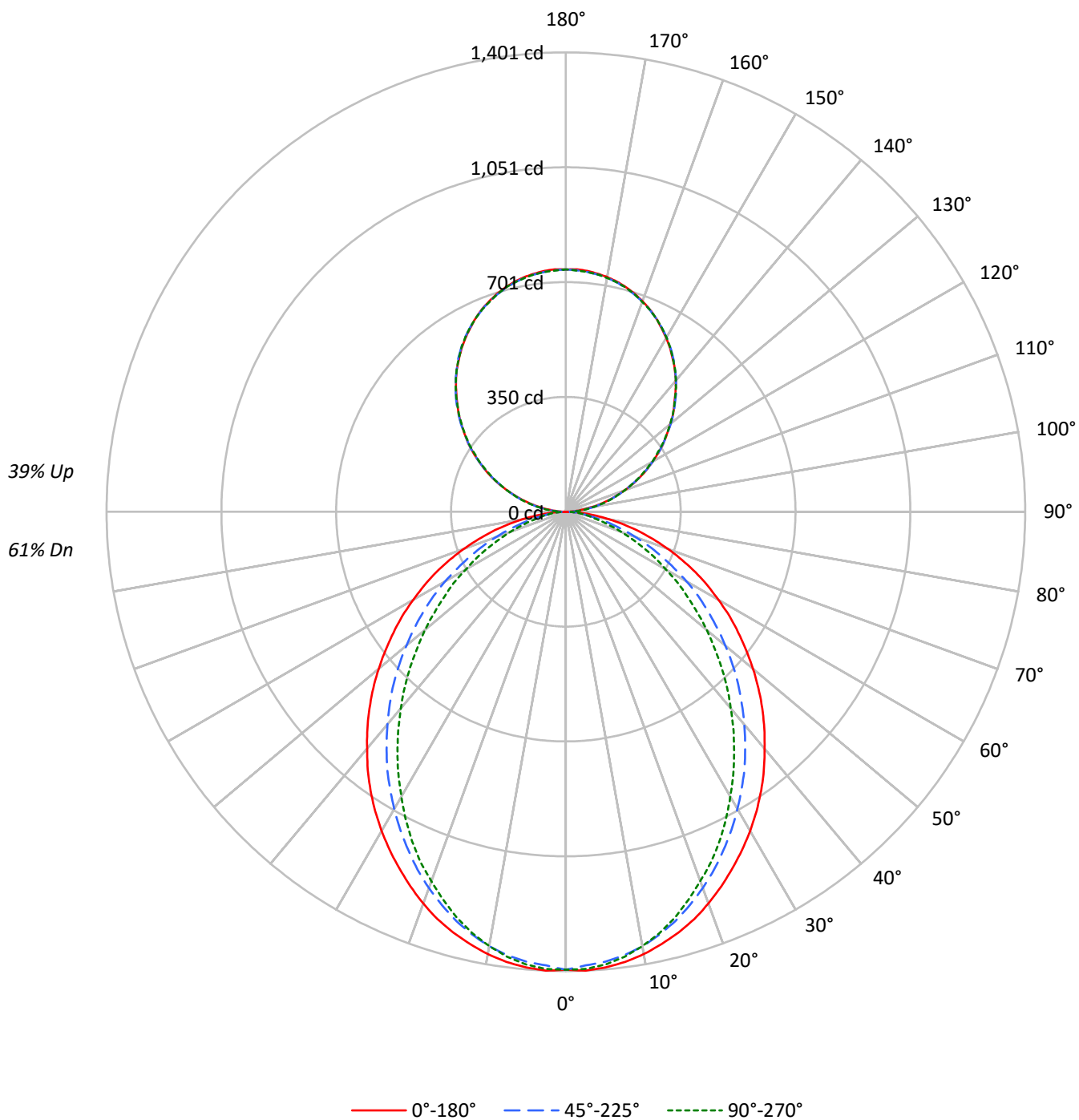
Lumens per Lamp: N/A
Luminaire Lumens: 5279.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 51.3
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	110	110	110	110	103	103	103	103	90	90	90	77	77	77	66	66	66
1	101	96	93	89	94	90	87	84	79	77	74	69	67	65	59	58	57
2	92	85	78	73	86	79	74	69	70	66	62	61	58	55	53	50	48
3	84	75	67	61	78	70	64	58	62	57	53	54	50	47	47	44	41
4	77	66	58	52	72	62	55	50	55	50	45	48	44	40	42	39	36
5	71	59	51	45	66	56	49	43	49	44	39	44	39	35	38	34	32
6	65	53	45	39	61	50	43	38	45	39	34	39	35	31	35	31	28
7	61	48	40	35	57	46	38	33	41	35	30	36	31	28	32	28	25
8	56	44	36	31	53	42	35	30	37	31	27	33	28	25	29	25	22
9	53	40	33	28	49	38	31	27	34	28	24	30	26	22	27	23	20
10	49	37	30	25	46	35	29	24	32	26	22	28	24	20	25	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11389	11389	11389
5°	11390	11051	11051
10°	11293	10702	10574
15°	11138	10267	10012
20°	10934	9772	9370
25°	10681	9238	8742
30°	10432	8693	8039
35°	10159	8142	7351
40°	9834	7546	6644
45°	9528	6957	5944
50°	9183	6313	5232
55°	8807	5653	4499
60°	8391	4952	3774
65°	7990	4148	3077
70°	7420	3301	2351
75°	6689	2401	1644
80°	5585	1474	1182
85°	4199	851	650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9528 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	2.5
10°-20°	366.2	6.9
20°-30°	528.7	10.0
30°-40°	599.1	11.3
40°-50°	578.5	11.0
50°-60°	480.9	9.1
60°-70°	331.9	6.3
70°-80°	167.7	3.2
80°-90°	44.2	0.8
90°-100°	48.2	0.9
100°-110°	144.3	2.7
110°-120°	245.1	4.6
120°-130°	323.2	6.1
130°-140°	363.1	6.9
140°-150°	356.8	6.8
150°-160°	300.1	5.7
160°-170°	199.7	3.8
170°-180°	69.9	1.3
0°-30°	1026.2	19.4
0°-40°	1625.3	30.8
0°-60°	2684.7	50.9
0°-90°	3228.6	61.2
90°-120°	437.5	8.3
90°-150°	1480.7	28.0
90°-180°	2050.0	38.8
0°-180°	5279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1394	1390	1377	1388	1386	132
15°	1328	1318	1292	1290	1282	374
25°	1201	1182	1138	1120	1109	553
35°	1038	1004	951	914	895	649
45°	847	807	743	691	672	653
55°	642	599	529	474	453	574
65°	436	390	322	276	263	431
75°	232	192	142	118	111	245
85°	58	36	33	31	31	63
90°	2	8	13	16	17	6
95°	34	39	43	45	45	37
105°	133	134	136	138	140	141
115°	249	249	248	248	247	246
125°	363	363	362	361	360	323
135°	468	472	472	470	469	362
145°	569	571	572	571	569	356
155°	652	652	651	653	651	300
165°	709	708	706	710	708	200
175°	738	735	734	738	734	70
180°	739	739	739	739	739	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1400.9	1396.6	1384.8	1396.6	1395.5
5°	1394.5	1390.2	1377.4	1388.0	1385.9
7.5°	1384.8	1380.6	1364.5	1372.0	1368.8
10°	1369.9	1364.5	1345.3	1349.6	1345.3
12.5°	1350.6	1344.2	1320.7	1322.8	1316.4
15°	1328.2	1318.5	1291.8	1289.7	1282.2
17.5°	1302.5	1288.6	1257.6	1252.2	1241.5
20°	1271.5	1257.6	1221.2	1212.7	1198.8
22.5°	1237.3	1221.2	1181.7	1167.8	1157.1
25°	1200.9	1181.7	1137.8	1119.6	1108.9
27.5°	1163.5	1140.0	1094.0	1072.6	1057.6
30°	1123.9	1097.2	1046.9	1020.2	1003.1
32.5°	1082.2	1051.2	998.8	966.7	950.7
35°	1038.4	1004.1	950.7	914.3	895.1
37.5°	992.4	957.1	898.3	858.7	839.5
40°	943.2	907.9	846.9	802.0	782.8
42.5°	896.1	858.7	794.5	748.6	728.2
45°	846.9	807.4	743.2	690.8	671.6
47.5°	796.7	756.0	689.7	635.2	613.8
50°	745.4	703.6	635.2	581.7	561.4
52.5°	693.0	652.3	581.7	527.2	505.8
55°	641.6	598.8	529.3	473.7	453.4
57.5°	591.4	546.5	478.0	421.3	406.4
60°	536.8	494.1	425.6	370.0	352.9
62.5°	487.6	442.7	372.1	321.9	309.0
65°	436.3	390.3	321.9	275.9	263.1
67.5°	382.8	339.0	274.8	234.2	219.2
70°	332.6	287.7	226.7	191.4	180.7
72.5°	279.1	239.5	182.9	154.0	144.4
75°	232.1	192.5	142.2	117.6	111.2
77.5°	182.9	148.6	105.9	88.8	86.6
80°	135.8	104.8	72.7	69.5	68.4
82.5°	95.2	67.4	52.4	50.3	49.2
85°	57.7	36.4	33.2	31.0	31.0
87.5°	24.6	16.0	15.0	13.9	15.0
90°	1.7	8.0	12.6	16.0	17.1
92.5°	14.9	22.3	25.1	26.9	27.4
95°	34.3	39.4	43.4	45.2	45.2
97.5°	54.9	59.4	64.0	66.3	66.3
100°	80.0	82.3	87.4	88.6	88.6
102.5°	106.3	106.9	111.4	113.2	113.7
105°	133.2	133.7	136.0	137.7	139.5
107.5°	161.2	161.7	162.3	164.6	164.0
110°	189.7	190.9	190.3	189.2	190.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	219.5	219.5	218.3	218.3	218.3
115°	249.2	249.2	248.0	247.5	246.9
117.5°	277.2	277.2	276.6	274.9	273.2
120°	305.2	307.5	305.8	302.9	304.1
122.5°	334.3	334.9	334.3	332.6	329.8
125°	362.9	362.9	362.3	361.2	360.1
127.5°	388.6	390.4	389.2	388.1	387.5
130°	416.1	417.8	417.8	416.6	414.4
132.5°	444.1	445.2	444.7	443.5	442.9
135°	468.1	471.5	471.5	470.4	468.7
137.5°	494.9	496.7	497.8	496.1	496.7
140°	521.8	522.9	522.9	522.4	521.8
142.5°	546.4	547.5	547.0	547.0	547.0
145°	568.7	571.0	571.5	571.0	569.2
147.5°	591.5	594.4	593.8	593.2	592.7
150°	612.1	614.4	614.4	614.4	613.8
152.5°	631.5	632.7	633.3	635.0	633.3
155°	651.5	651.5	651.0	653.3	651.0
157.5°	668.7	667.5	667.5	669.3	667.5
160°	683.5	683.0	682.4	684.1	681.3
162.5°	697.3	695.6	695.0	698.4	695.6
165°	709.3	707.6	706.4	709.8	707.6
167.5°	719.0	716.7	716.7	720.1	716.7
170°	727.0	724.1	724.7	728.1	724.1
172.5°	732.7	730.4	730.4	734.4	730.4
175°	737.8	735.0	734.4	738.4	734.4
177.5°	740.1	737.3	737.3	741.3	736.7
180°	739.0	739.0	739.0	739.0	739.0

(END OF REPORT)