

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: P1026539

Luminaire Tested: S124RDIP-B795D1035UB30-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026539
REPORT IS A COMBINATION OF REPORTS P999639 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D1035UB30-4F0-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

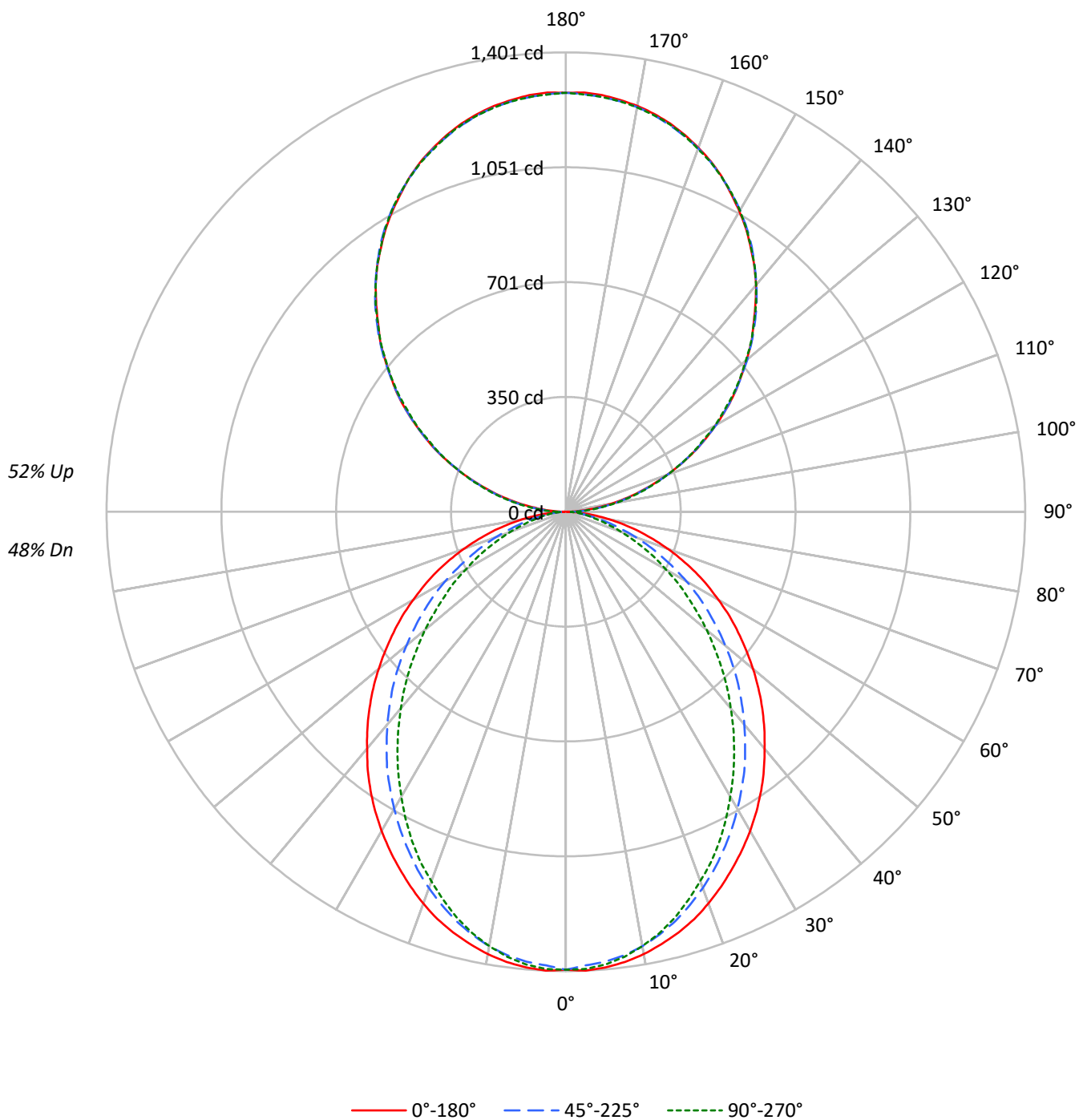
Lumens per Lamp: N/A
Luminaire Lumens: 6775.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 64.4
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46
2	89	82	76	71	82	75	70	66	64	60	57	53	50	48	43	41	39
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29
5	68	57	49	43	63	53	46	41	45	40	35	38	34	30	31	28	26
6	63	51	43	38	58	48	40	35	41	35	31	34	30	27	28	25	23
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	23	20
8	54	42	34	29	50	39	32	28	34	28	24	28	24	21	24	20	18
9	50	38	31	26	46	36	29	25	31	26	22	26	22	19	22	19	16
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15

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	1.9
10°-20°	366.2	5.4
20°-30°	528.7	7.8
30°-40°	599.1	8.8
40°-50°	578.5	8.5
50°-60°	480.9	7.1
60°-70°	331.9	4.9
70°-80°	167.7	2.5
80°-90°	45.3	0.7
90°-100°	83.3	1.2
100°-110°	249.5	3.7
110°-120°	423.8	6.3
120°-130°	558.9	8.2
130°-140°	627.7	9.3
140°-150°	617.0	9.1
150°-160°	518.9	7.7
160°-170°	345.3	5.1
170°-180°	120.9	1.8
0°-30°	1026.2	15.1
0°-40°	1625.3	24.0
0°-60°	2684.7	39.6
0°-90°	3229.7	47.7
90°-120°	756.6	11.2
90°-150°	2560.2	37.8
90°-180°	3545.0	52.3
0°-180°	6775.0	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°	3	14	22	28	30	8
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°	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°	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)