

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: P1026582

Luminaire Tested: S124RDIP-B795D1205UB40-4F0-XX-W2A-F4

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026582
REPORT IS A COMBINATION OF REPORTS P999692 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D1205UB40-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

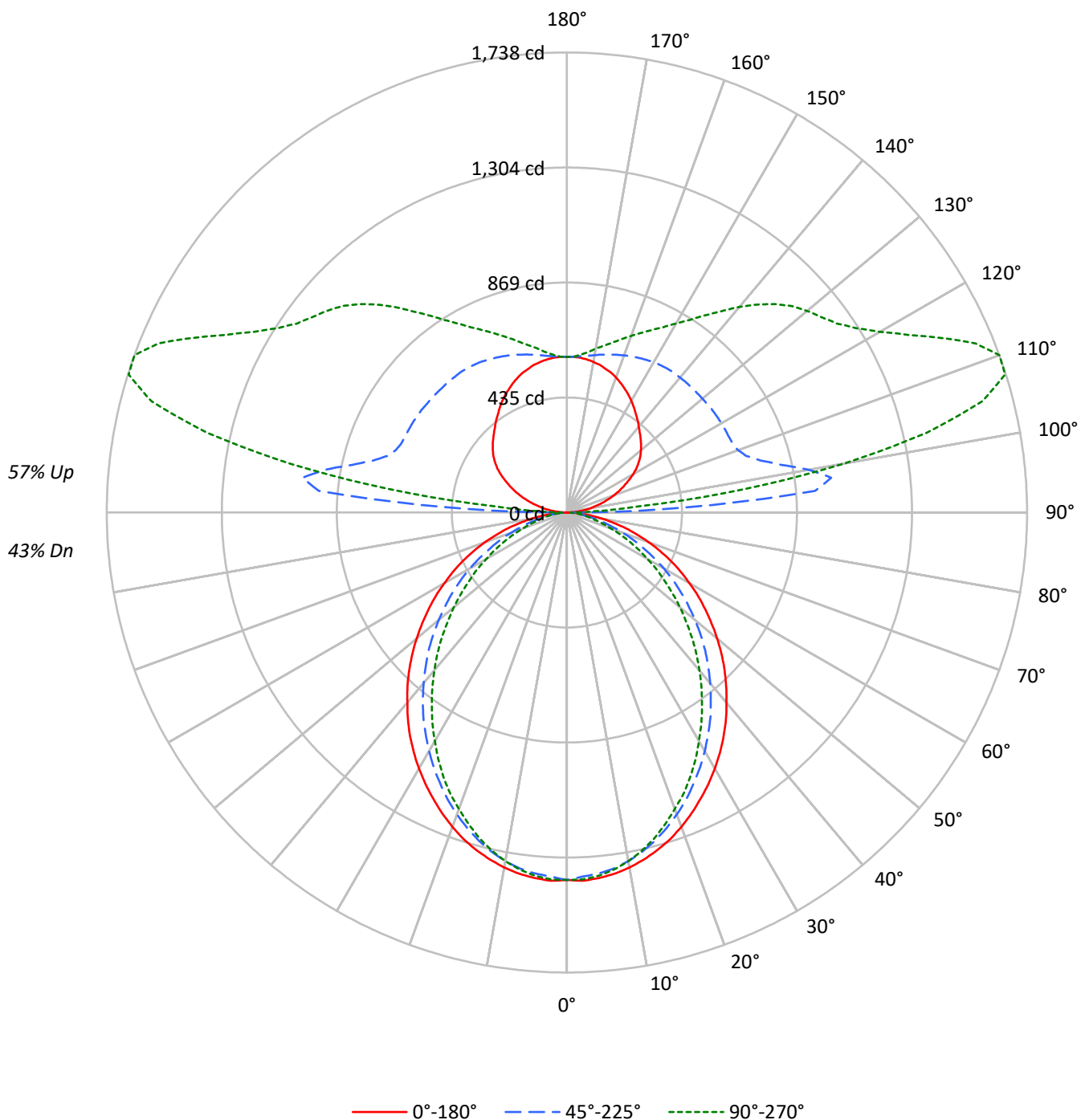
Lumens per Lamp: N/A
Luminaire Lumens: 7499.6 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70.9
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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	50	50	50
1	96	92	88	85	88	84	81	78	70	68	66	56	55	54	44	43	42
2	88	81	75	70	80	74	69	65	61	58	55	50	47	45	39	37	36
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31
4	74	63	55	50	67	58	51	46	48	43	39	40	36	33	31	29	27
5	68	56	48	42	62	52	45	40	43	38	34	36	32	29	28	26	23
6	62	50	43	37	57	47	40	34	39	34	30	32	28	25	26	23	21
7	58	46	38	32	53	42	35	30	35	30	26	29	25	22	23	21	18
8	53	41	34	29	49	38	32	27	32	27	23	27	23	20	22	19	17
9	50	38	30	25	45	35	28	24	30	25	21	25	21	18	20	17	15
10	46	35	28	23	43	32	26	22	27	22	19	23	19	16	19	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11322	11322	11322
5°	11323	10985	10986
10°	11227	10639	10512
15°	11072	10207	9952
20°	10870	9715	9314
25°	10617	9184	8691
30°	10371	8643	7991
35°	10099	8094	7307
40°	9776	7503	6605
45°	9473	6916	5908
50°	9128	6276	5202
55°	8755	5619	4472
60°	8343	4923	3752
65°	7942	4123	3058
70°	7376	3282	2338
75°	6648	2388	1635
80°	5552	1466	1175
85°	4177	846	646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9473 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	1.7
10°-20°	364.0	4.9
20°-30°	525.5	7.0
30°-40°	595.6	7.9
40°-50°	575.1	7.7
50°-60°	478.1	6.4
60°-70°	330.0	4.4
70°-80°	166.8	2.2
80°-90°	44.6	0.6
90°-100°	436.6	5.8
100°-110°	888.0	11.8
110°-120°	791.5	10.6
120°-130°	664.8	8.9
130°-140°	554.8	7.4
140°-150°	423.7	5.6
150°-160°	297.8	4.0
160°-170°	175.2	2.3
170°-180°	57.0	0.8
0°-30°	1020.1	13.6
0°-40°	1615.7	21.5
0°-60°	2668.9	35.6
0°-90°	3210.3	42.8
90°-120°	2116.0	28.2
90°-150°	3759.4	50.1
90°-180°	4289.0	57.2
0°-180°	7499.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1386	1382	1369	1380	1378	132
15°	1320	1311	1284	1282	1275	372
25°	1194	1175	1131	1113	1102	550
35°	1032	998	945	909	890	645
45°	842	803	739	687	668	649
55°	638	595	526	471	451	571
65°	434	388	320	274	262	428
75°	231	191	141	117	111	243
85°	57	36	33	31	31	63
90°	1	9	21	23	24	6
95°	38	120	941	466	282	42
105°	135	196	758	1631	1625	144
115°	238	298	676	1298	1560	236
125°	331	394	672	1104	1245	295
135°	394	469	666	980	1113	304
145°	454	520	663	827	909	285
155°	516	557	644	730	761	238
165°	562	580	618	654	664	159
175°	587	588	592	600	598	56
180°	588	588	588	588	588	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.4	1388.4	1388.4	1388.4	1388.4
2.5°	1392.6	1388.4	1376.7	1388.4	1387.3
5°	1386.3	1382.0	1369.2	1379.9	1377.7
7.5°	1376.7	1372.4	1356.5	1363.9	1360.7
10°	1361.8	1356.5	1337.4	1341.6	1337.4
12.5°	1342.7	1336.3	1312.9	1315.0	1308.6
15°	1320.3	1310.8	1284.2	1282.1	1274.6
17.5°	1294.8	1281.0	1250.2	1244.9	1234.2
20°	1264.0	1250.2	1214.0	1205.5	1191.7
22.5°	1230.0	1214.0	1174.7	1160.9	1150.3
25°	1193.8	1174.7	1131.1	1113.0	1102.4
27.5°	1156.6	1133.2	1087.5	1066.3	1051.4
30°	1117.3	1090.7	1040.8	1014.2	997.2
32.5°	1075.8	1045.0	992.9	961.0	945.1
35°	1032.2	998.2	945.1	908.9	889.8
37.5°	986.5	951.5	893.0	853.7	834.5
40°	937.6	902.6	842.0	797.3	778.2
42.5°	890.9	853.7	789.9	744.2	724.0
45°	842.0	802.6	738.8	686.7	667.6
47.5°	792.0	751.6	685.7	631.5	610.2
50°	741.0	699.5	631.5	578.3	558.1
52.5°	688.9	648.5	578.3	524.1	502.8
55°	637.8	595.3	526.2	470.9	450.7
57.5°	587.9	543.2	475.2	418.9	404.0
60°	533.7	491.1	423.1	367.8	350.8
62.5°	484.8	440.1	370.0	320.0	307.2
65°	433.7	388.0	320.0	274.3	261.5
67.5°	380.6	337.0	273.2	232.8	217.9
70°	330.6	286.0	225.4	190.3	179.7
72.5°	277.5	238.1	181.8	153.1	143.5
75°	230.7	191.4	141.4	116.9	110.6
77.5°	181.8	147.8	105.2	88.2	86.1
80°	135.0	104.2	72.3	69.1	68.0
82.5°	94.6	67.0	52.1	50.0	48.9
85°	57.4	36.1	33.0	30.8	30.8
87.5°	24.5	15.9	14.9	13.8	14.9
90°	1.2	9.2	20.8	23.1	24.2
92.5°	16.2	88.9	452.6	149.6	105.1
95°	38.1	120.0	941.1	465.9	281.7
97.5°	63.5	132.8	1006.9	951.4	676.7
100°	87.8	150.1	928.4	1316.4	1058.9
102.5°	110.9	170.9	830.2	1545.0	1391.4
105°	135.1	195.8	757.5	1631.0	1624.7
107.5°	161.7	221.2	710.1	1605.0	1735.5
110°	188.2	246.5	688.2	1512.7	1737.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	213.6	271.9	677.8	1399.5	1669.7
115°	237.9	298.5	675.5	1297.9	1560.0
117.5°	263.3	323.4	674.3	1218.2	1452.6
120°	288.7	347.5	674.3	1164.5	1364.9
122.5°	311.8	371.2	673.2	1129.3	1295.6
125°	331.4	393.8	672.0	1104.4	1244.8
127.5°	349.9	414.6	669.7	1080.8	1212.4
130°	364.9	434.8	668.6	1052.5	1184.7
132.5°	379.9	452.1	667.4	1019.0	1153.5
135°	393.8	468.8	666.3	980.4	1113.1
137.5°	407.6	483.2	666.3	938.8	1065.8
140°	422.6	496.6	665.1	898.4	1013.8
142.5°	438.8	508.6	665.1	860.8	958.4
145°	453.8	519.6	662.8	826.8	908.8
147.5°	471.1	530.0	659.3	798.5	862.6
150°	487.3	539.8	655.9	772.5	824.5
152.5°	502.3	549.0	650.1	750.6	789.8
155°	516.2	557.2	644.3	729.8	760.9
157.5°	530.0	564.7	638.6	710.2	734.4
160°	542.7	571.0	631.6	690.5	710.1
162.5°	554.3	576.2	624.7	671.4	687.0
165°	562.3	579.7	617.8	654.2	664.0
167.5°	571.6	582.6	610.8	639.2	645.5
170°	577.4	584.8	603.9	624.1	628.2
172.5°	583.1	586.6	597.0	610.8	610.8
175°	586.6	587.7	592.4	600.4	598.1
177.5°	588.9	587.7	588.9	593.0	588.9
180°	587.7	587.7	587.7	587.7	587.7

(END OF REPORT)