

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: P1026622

Luminaire Tested: S124RDIP-B795D590UB27-4F0-XX-W2A-F

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026622
REPORT IS A COMBINATION OF REPORTS P999742 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D590UB27-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Pendant with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

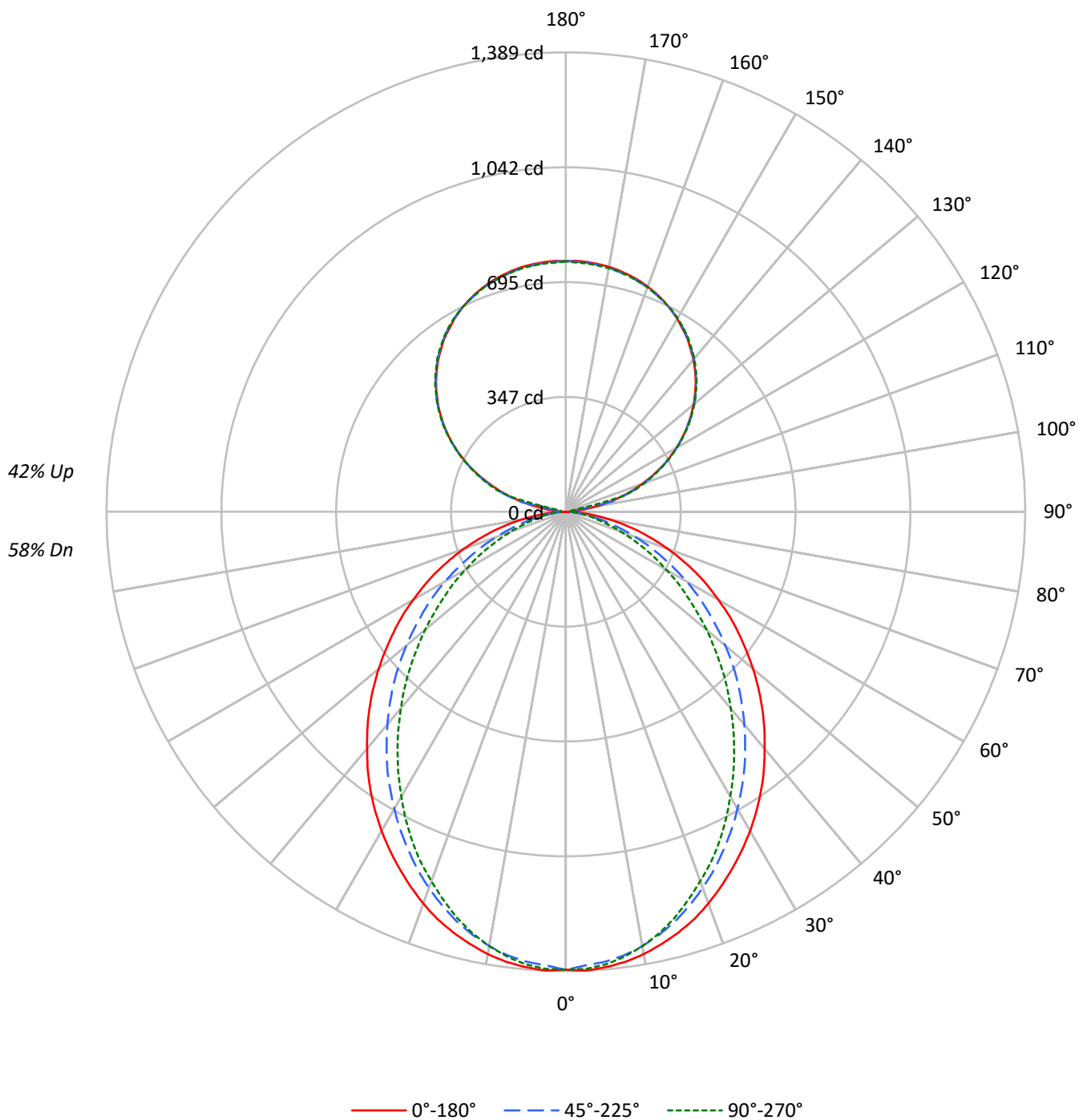
Lumens per Lamp: N/A
Luminaire Lumens: 5545.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63
1	100	96	92	88	93	89	86	83	77	75	73	66	65	63	56	55	54
2	91	84	78	73	85	78	73	69	68	64	61	59	56	53	50	48	46
3	83	74	67	61	77	69	63	58	60	55	51	52	48	45	45	42	39
4	76	66	58	52	71	62	55	49	54	48	44	47	42	39	40	37	34
5	70	59	51	45	65	55	48	42	48	43	38	42	38	34	36	33	30
6	65	53	45	39	60	50	42	37	44	38	34	38	34	30	33	29	27
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	30	26	24
8	56	43	36	30	52	41	34	29	36	31	26	32	27	24	28	24	21
9	52	40	32	27	49	38	31	26	33	28	24	29	25	22	26	22	19
10	49	37	29	25	45	35	28	24	31	25	22	27	23	20	24	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11290	11290	11290
5°	11291	10954	10956
10°	11195	10609	10482
15°	11041	10178	9925
20°	10840	9688	9288
25°	10588	9158	8666
30°	10342	8618	7969
35°	10071	8071	7287
40°	9749	7481	6586
45°	9446	6897	5892
50°	9103	6258	5188
55°	8732	5603	4460
60°	8319	4909	3741
65°	7921	4112	3050
70°	7356	3272	2331
75°	6628	2381	1629
80°	5536	1462	1171
85°	4162	843	643

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9446 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.2	2.3
10°-20°	363.0	6.5
20°-30°	524.1	9.5
30°-40°	593.9	10.7
40°-50°	573.5	10.3
50°-60°	476.8	8.6
60°-70°	329.1	5.9
70°-80°	166.3	3.0
80°-90°	43.8	0.8
90°-100°	25.2	0.5
100°-110°	165.6	3.0
110°-120°	316.3	5.7
120°-130°	401.5	7.2
130°-140°	429.5	7.7
140°-150°	401.6	7.2
150°-160°	323.9	5.8
160°-170°	208.9	3.8
170°-180°	72.0	1.3
0°-30°	1017.2	18.3
0°-40°	1611.2	29.1
0°-60°	2661.4	48.0
0°-90°	3200.6	57.7
90°-120°	507.0	9.1
90°-150°	1739.7	31.4
90°-180°	2344.0	42.3
0°-180°	5545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1384	1384	1384	1384	1384	
5°	1382	1378	1365	1376	1374	131
15°	1317	1307	1281	1278	1271	371
25°	1190	1171	1128	1110	1099	549
35°	1029	995	942	906	887	643
45°	840	800	737	685	666	647
55°	636	594	525	470	450	569
65°	432	387	319	274	261	427
75°	230	191	141	117	110	243
85°	57	36	33	31	31	63
90°	2	8	12	16	17	5
95°	31	12	12	16	16	38
105°	171	174	177	182	162	179
115°	318	320	320	321	321	313
125°	448	450	449	450	451	400
135°	555	555	557	558	559	428
145°	640	642	642	643	644	400
155°	702	703	701	703	702	324
165°	741	738	738	742	737	209
175°	758	754	755	760	753	72
180°	758	758	758	758	758	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1384.5	1384.5	1384.5	1384.5	1384.5
2.5°	1388.7	1384.5	1372.8	1384.5	1383.4
5°	1382.4	1378.1	1365.4	1376.0	1373.9
7.5°	1372.8	1368.6	1352.7	1360.1	1356.9
10°	1358.0	1352.7	1333.6	1337.8	1333.6
12.5°	1338.9	1332.5	1309.2	1311.3	1305.0
15°	1316.6	1307.1	1280.6	1278.5	1271.1
17.5°	1291.2	1277.4	1246.7	1241.4	1230.8
20°	1260.5	1246.7	1210.6	1202.1	1188.4
22.5°	1226.5	1210.6	1171.4	1157.6	1147.0
25°	1190.5	1171.4	1127.9	1109.9	1099.3
27.5°	1153.4	1130.1	1084.5	1063.3	1048.4
30°	1114.2	1087.7	1037.8	1011.3	994.4
32.5°	1072.8	1042.1	990.1	958.3	942.4
35°	1029.4	995.4	942.4	906.4	887.3
37.5°	983.8	948.8	890.5	851.3	832.2
40°	935.0	900.0	839.6	795.1	776.0
42.5°	888.4	851.3	787.7	742.1	721.9
45°	839.6	800.4	736.8	684.8	665.7
47.5°	789.8	749.5	683.8	629.7	608.5
50°	738.9	697.5	629.7	576.7	556.6
52.5°	686.9	646.7	576.7	522.6	501.4
55°	636.1	593.7	524.7	469.6	449.5
57.5°	586.2	541.7	473.9	417.7	402.8
60°	532.2	489.8	421.9	366.8	349.8
62.5°	483.4	438.9	368.9	319.1	306.4
65°	432.5	386.9	319.1	273.5	260.8
67.5°	379.5	336.1	272.4	232.2	217.3
70°	329.7	285.2	224.7	189.8	179.2
72.5°	276.7	237.5	181.3	152.7	143.1
75°	230.0	190.8	141.0	116.6	110.2
77.5°	181.3	147.4	104.9	88.0	85.9
80°	134.6	103.9	72.1	68.9	67.8
82.5°	94.3	66.8	51.9	49.8	48.8
85°	57.2	36.0	32.9	30.7	30.7
87.5°	24.4	15.9	14.8	13.8	14.8
90°	1.7	7.9	12.5	15.9	17.0
92.5°	8.5	7.4	11.9	15.3	15.3
95°	31.2	11.9	12.5	15.9	16.4
97.5°	59.5	72.0	12.5	15.3	15.9
100°	92.9	103.1	24.9	15.3	15.9
102.5°	130.3	137.1	143.9	16.4	16.4
105°	170.6	174.0	176.8	181.9	161.5
107.5°	207.4	209.1	213.1	215.9	218.2
110°	244.8	246.5	249.9	251.0	252.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	281.1	284.5	285.6	285.0	287.3
115°	318.5	320.2	319.6	320.7	320.7
117.5°	351.9	354.2	355.9	355.3	355.3
120°	385.9	388.2	387.6	388.7	387.6
122.5°	417.6	418.8	419.9	420.5	419.3
125°	447.7	449.9	448.8	450.5	451.1
127.5°	476.6	477.1	480.0	479.4	478.8
130°	504.3	504.9	506.6	507.2	507.2
132.5°	529.8	531.0	533.2	533.8	533.2
135°	555.3	554.8	557.0	558.2	559.3
137.5°	578.0	578.0	580.8	582.0	581.4
140°	600.1	601.2	602.4	604.1	604.6
142.5°	619.9	622.2	622.8	623.9	623.9
145°	640.3	642.0	642.0	642.6	643.7
147.5°	656.2	659.6	659.0	659.6	660.2
150°	673.8	676.0	675.5	675.5	676.0
152.5°	688.5	690.2	689.1	690.2	689.6
155°	702.1	702.7	701.0	703.2	701.5
157.5°	714.0	714.0	711.7	714.6	711.7
160°	724.2	722.5	721.9	725.3	721.9
162.5°	733.3	731.0	730.4	733.8	729.9
165°	740.6	737.8	737.8	742.3	737.2
167.5°	746.9	744.0	743.5	748.6	742.9
170°	752.0	748.6	749.1	753.7	748.0
172.5°	755.4	752.0	752.5	757.1	750.8
175°	757.6	754.2	754.8	759.9	753.1
177.5°	759.3	755.4	756.5	761.0	754.2
180°	757.6	757.6	757.6	757.6	757.6

(END OF REPORT)