

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: P1026635

Luminaire Tested: S124RDIP-B795D590UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026635
REPORT IS A COMBINATION OF REPORTS P999765 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D590UB35-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

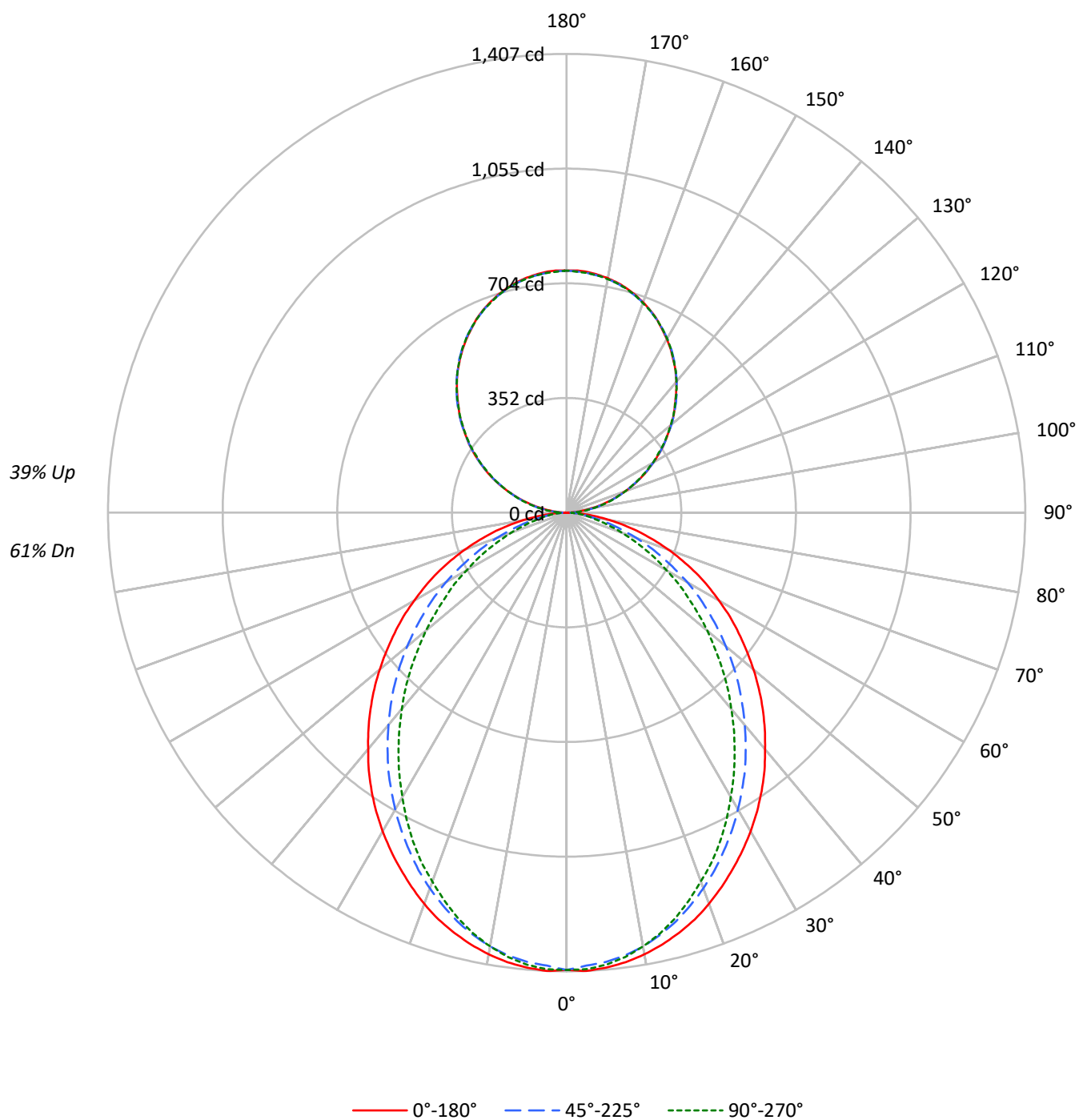
Lumens per Lamp: N/A
Luminaire Lumens: 5302.0 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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°	11438	11438	11438
5°	11439	11098	11099
10°	11342	10748	10620
15°	11186	10312	10055
20°	10982	9815	9410
25°	10727	9279	8781
30°	10478	8732	8073
35°	10203	8177	7382
40°	9877	7579	6672
45°	9570	6987	5970
50°	9222	6341	5256
55°	8846	5677	4519
60°	8429	4974	3790
65°	8025	4166	3090
70°	7451	3316	2361
75°	6717	2412	1652
80°	5610	1481	1187
85°	4221	853	652

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9570 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.9	2.5
10°-20°	367.8	6.9
20°-30°	530.9	10.0
30°-40°	601.7	11.3
40°-50°	581.0	11.0
50°-60°	483.0	9.1
60°-70°	333.4	6.3
70°-80°	168.5	3.2
80°-90°	44.4	0.8
90°-100°	48.4	0.9
100°-110°	144.9	2.7
110°-120°	246.2	4.6
120°-130°	324.7	6.1
130°-140°	364.7	6.9
140°-150°	358.4	6.8
150°-160°	301.4	5.7
160°-170°	200.6	3.8
170°-180°	70.2	1.3
0°-30°	1030.6	19.4
0°-40°	1632.3	30.8
0°-60°	2696.4	50.9
0°-90°	3242.6	61.2
90°-120°	439.5	8.3
90°-150°	1487.2	28.0
90°-180°	2059.0	38.8
0°-180°	5302.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1403	1403	1403	1403	1403	
5°	1400	1396	1383	1394	1392	133
15°	1334	1324	1297	1295	1288	376
25°	1206	1187	1143	1124	1114	556
35°	1043	1008	955	918	899	652
45°	851	811	746	694	674	656
55°	644	601	532	476	455	576
65°	438	392	323	277	264	433
75°	233	193	143	118	112	246
85°	58	36	33	31	31	64
90°	2	8	13	16	17	6
95°	34	40	44	45	45	37
105°	134	134	137	138	140	142
115°	250	250	249	249	248	247
125°	364	364	364	363	362	325
135°	470	474	474	472	471	364
145°	571	574	574	574	572	358
155°	654	654	654	656	654	301
165°	712	711	710	713	711	201
175°	741	738	738	742	738	70
180°	742	742	742	742	742	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1402.7	1402.7	1402.7	1402.7	1402.7
2.5°	1407.0	1402.7	1390.8	1402.7	1401.6
5°	1400.5	1396.2	1383.3	1394.1	1391.9
7.5°	1390.8	1386.6	1370.4	1378.0	1374.7
10°	1375.8	1370.4	1351.1	1355.4	1351.1
12.5°	1356.5	1350.0	1326.4	1328.6	1322.1
15°	1333.9	1324.3	1297.4	1295.3	1287.7
17.5°	1308.1	1294.2	1263.0	1257.7	1246.9
20°	1277.0	1263.0	1226.5	1217.9	1204.0
22.5°	1242.6	1226.5	1186.8	1172.8	1162.1
25°	1206.1	1186.8	1142.8	1124.5	1113.8
27.5°	1168.5	1144.9	1098.7	1077.2	1062.2
30°	1128.8	1101.9	1051.5	1024.6	1007.4
32.5°	1086.9	1055.8	1003.1	970.9	954.8
35°	1042.9	1008.5	954.8	918.3	898.9
37.5°	996.7	961.2	902.2	862.4	843.1
40°	947.3	911.8	850.6	805.5	786.2
42.5°	900.0	862.4	798.0	751.8	731.4
45°	850.6	810.9	746.4	693.8	674.5
47.5°	800.1	759.3	692.7	638.0	616.5
50°	748.6	706.7	638.0	584.3	563.9
52.5°	696.0	655.1	584.3	529.5	508.0
55°	644.4	601.4	531.6	475.8	455.4
57.5°	593.9	548.8	480.1	423.2	408.1
60°	539.2	496.2	427.5	371.6	354.4
62.5°	489.8	444.6	373.8	323.3	310.4
65°	438.2	392.0	323.3	277.1	264.2
67.5°	384.5	340.5	276.0	235.2	220.2
70°	334.0	288.9	227.7	192.2	181.5
72.5°	280.3	240.6	183.7	154.7	145.0
75°	233.1	193.3	142.8	118.1	111.7
77.5°	183.7	149.3	106.3	89.1	87.0
80°	136.4	105.3	73.0	69.8	68.7
82.5°	95.6	67.7	52.6	50.5	49.4
85°	58.0	36.5	33.3	31.1	31.1
87.5°	24.7	16.1	15.0	14.0	15.0
90°	1.7	8.0	12.6	16.1	17.2
92.5°	14.9	22.4	25.3	27.0	27.6
95°	34.4	39.6	43.6	45.3	45.3
97.5°	55.1	59.7	64.3	66.6	66.6
100°	80.4	82.7	87.8	89.0	89.0
102.5°	106.8	107.3	111.9	113.7	114.2
105°	133.8	134.3	136.6	138.3	140.1
107.5°	161.9	162.5	163.0	165.3	164.7
110°	190.6	191.7	191.2	190.0	191.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	220.4	220.4	219.3	219.3	219.3
115°	250.3	250.3	249.1	248.6	248.0
117.5°	278.4	278.4	277.8	276.1	274.4
120°	306.5	308.8	307.1	304.2	305.4
122.5°	335.8	336.4	335.8	334.1	331.2
125°	364.5	364.5	363.9	362.8	361.6
127.5°	390.3	392.1	390.9	389.8	389.2
130°	417.9	419.6	419.6	418.5	416.2
132.5°	446.0	447.2	446.6	445.5	444.9
135°	470.1	473.6	473.6	472.4	470.7
137.5°	497.1	498.8	500.0	498.3	498.8
140°	524.1	525.2	525.2	524.7	524.1
142.5°	548.8	549.9	549.4	549.4	549.4
145°	571.2	573.5	574.0	573.5	571.7
147.5°	594.1	597.0	596.4	595.8	595.3
150°	614.8	617.1	617.1	617.1	616.5
152.5°	634.3	635.5	636.0	637.8	636.0
155°	654.4	654.4	653.8	656.1	653.8
157.5°	671.6	670.5	670.5	672.2	670.5
160°	686.5	686.0	685.4	687.1	684.3
162.5°	700.3	698.6	698.0	701.5	698.6
165°	712.4	710.7	709.5	713.0	710.7
167.5°	722.1	719.8	719.8	723.3	719.8
170°	730.2	727.3	727.9	731.3	727.3
172.5°	735.9	733.6	733.6	737.6	733.6
175°	741.1	738.2	737.6	741.7	737.6
177.5°	743.4	740.5	740.5	744.5	739.9
180°	742.2	742.2	742.2	742.2	742.2

(END OF REPORT)