

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: P1026545

Luminaire Tested: S124RDIP-B795D1035UB35-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026545
REPORT IS A COMBINATION OF REPORTS P999645 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D1035UB35-4F0-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

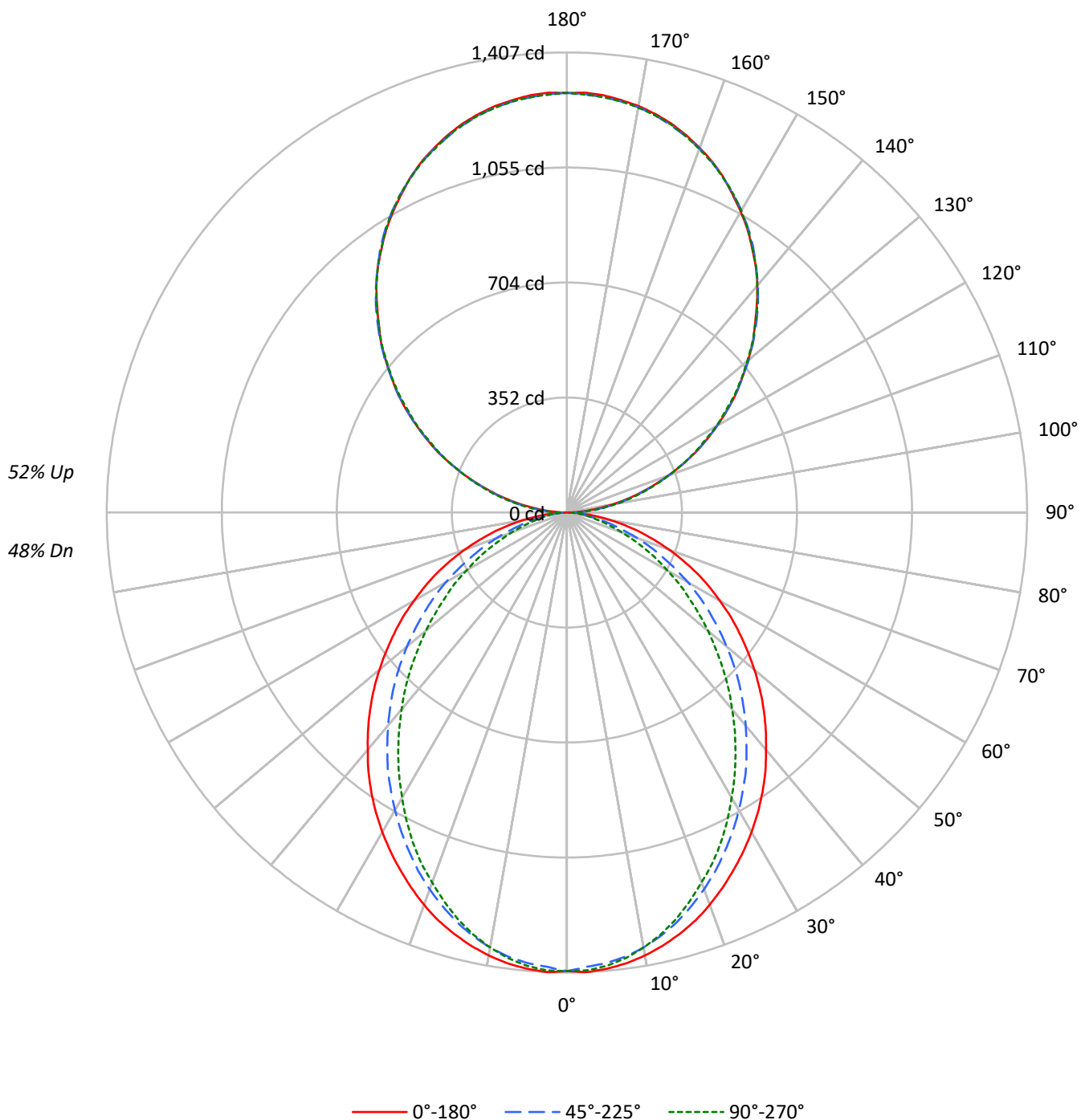
Lumens per Lamp: N/A
Luminaire Lumens: 6804.0 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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°	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	1.9
10°-20°	367.8	5.4
20°-30°	530.9	7.8
30°-40°	601.7	8.8
40°-50°	581.0	8.5
50°-60°	483.0	7.1
60°-70°	333.4	4.9
70°-80°	168.5	2.5
80°-90°	45.5	0.7
90°-100°	83.6	1.2
100°-110°	250.5	3.7
110°-120°	425.6	6.3
120°-130°	561.3	8.2
130°-140°	630.4	9.3
140°-150°	619.6	9.1
150°-160°	521.1	7.7
160°-170°	346.7	5.1
170°-180°	121.4	1.8
0°-30°	1030.6	15.1
0°-40°	1632.3	24.0
0°-60°	2696.4	39.6
0°-90°	3243.7	47.7
90°-120°	759.7	11.2
90°-150°	2571.0	37.8
90°-180°	3560.0	52.3
0°-180°	6804.0	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°	3	14	22	28	30	8
95°	60	68	75	78	78	64
105°	231	232	236	239	242	245
115°	433	433	431	430	429	427
125°	630	630	629	627	625	562
135°	813	819	819	817	814	629
145°	987	991	992	991	988	618
155°	1131	1131	1130	1134	1130	521
165°	1232	1229	1227	1232	1229	347
175°	1281	1276	1275	1282	1275	122
180°	1283	1283	1283	1283	1283	

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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°	3.0	13.9	21.8	27.8	29.8
92.5°	25.8	38.7	43.7	46.6	47.6
95°	59.5	68.5	75.4	78.4	78.4
97.5°	95.3	103.2	111.1	115.1	115.1
100°	138.9	142.9	151.8	153.8	153.8
102.5°	184.6	185.6	193.5	196.5	197.5
105°	231.2	232.2	236.2	239.2	242.1
107.5°	279.9	280.8	281.8	285.8	284.8
110°	329.5	331.5	330.5	328.5	331.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	381.1	381.1	379.1	379.1	379.1
115°	432.7	432.7	430.7	429.7	428.7
117.5°	481.3	481.3	480.3	477.3	474.4
120°	529.9	533.9	530.9	526.0	527.9
122.5°	580.5	581.5	580.5	577.6	572.6
125°	630.2	630.2	629.2	627.2	625.2
127.5°	674.8	677.8	675.8	673.8	672.8
130°	722.5	725.4	725.4	723.4	719.5
132.5°	771.1	773.1	772.1	770.1	769.1
135°	812.8	818.7	818.7	816.7	813.8
137.5°	859.4	862.4	864.4	861.4	862.4
140°	906.0	908.0	908.0	907.0	906.0
142.5°	948.7	950.7	949.7	949.7	949.7
145°	987.4	991.4	992.4	991.4	988.4
147.5°	1027.1	1032.1	1031.1	1030.1	1029.1
150°	1062.8	1066.8	1066.8	1066.8	1065.8
152.5°	1096.6	1098.6	1099.6	1102.5	1099.6
155°	1131.3	1131.3	1130.3	1134.3	1130.3
157.5°	1161.1	1159.1	1159.1	1162.1	1159.1
160°	1186.9	1185.9	1184.9	1187.9	1182.9
162.5°	1210.7	1207.7	1206.7	1212.7	1207.7
165°	1231.5	1228.6	1226.6	1232.5	1228.6
167.5°	1248.4	1244.4	1244.4	1250.4	1244.4
170°	1262.3	1257.3	1258.3	1264.3	1257.3
172.5°	1272.2	1268.3	1268.3	1275.2	1268.3
175°	1281.2	1276.2	1275.2	1282.2	1275.2
177.5°	1285.1	1280.2	1280.2	1287.1	1279.2
180°	1283.1	1283.1	1283.1	1283.1	1283.1

(END OF REPORT)