

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: P1013422

Luminaire Tested: S124RDIP-B795D365UB2750-4F0-XX-W2A-F_3500K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1013422
REPORT IS A COMBINATION OF REPORTS P999712 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D365UB2750-4F0-XX-W2A-F_3500K
Description: Define 4 Regressed Direct/Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721}
{m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

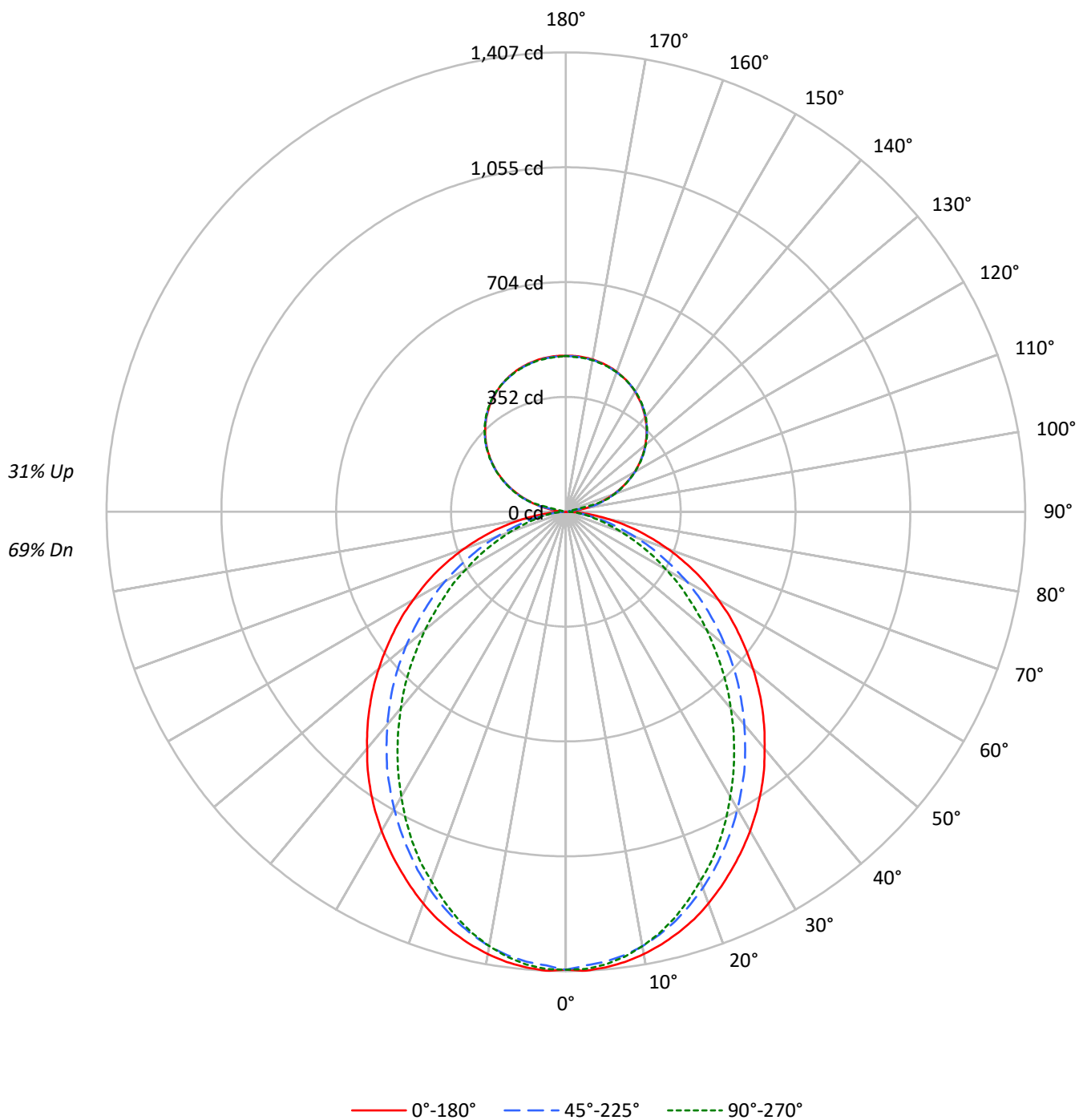
Lumens per Lamp: N/A
Luminaire Lumens: 4719.0 lumens
Efficiency: N/A
Efficacy: 104.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45.2
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	112	112	112	112	105	105	105	105	94	94	94	83	83	83	73	73	73
1	102	98	94	91	97	93	89	86	83	80	78	74	72	70	65	64	63
2	94	86	80	75	88	82	76	71	73	69	65	65	62	59	58	56	53
3	86	76	69	63	81	72	66	60	65	60	55	58	54	50	52	49	46
4	79	68	60	53	74	64	57	51	58	52	47	52	47	44	46	43	40
5	72	60	52	46	68	58	50	45	52	46	41	47	42	38	42	38	35
6	67	55	46	40	63	52	44	39	47	41	36	43	37	34	38	34	31
7	62	49	41	36	58	47	40	34	43	37	32	39	34	30	35	31	28
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	32	28	25
9	54	41	34	29	51	40	32	28	36	30	26	33	28	24	30	26	23
10	50	38	31	26	48	36	30	25	33	28	24	30	26	22	28	24	21

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	2.8
10°-20°	367.8	7.8
20°-30°	530.9	11.3
30°-40°	601.7	12.8
40°-50°	581.0	12.3
50°-60°	483.0	10.2
60°-70°	333.4	7.1
70°-80°	168.5	3.6
80°-90°	43.8	0.9
90°-100°	15.8	0.3
100°-110°	104.3	2.2
110°-120°	199.2	4.2
120°-130°	252.9	5.4
130°-140°	270.6	5.7
140°-150°	253.0	5.4
150°-160°	204.0	4.3
160°-170°	131.6	2.8
170°-180°	45.4	1.0
0°-30°	1030.6	21.8
0°-40°	1632.3	34.6
0°-60°	2696.4	57.1
0°-90°	3242.0	68.7
90°-120°	319.4	6.8
90°-150°	1096.0	23.2
90°-180°	1477.0	31.3
0°-180°	4719.0	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°	1	5	8	10	11	4
95°	20	8	8	10	10	24
105°	108	110	111	115	102	112
115°	201	202	201	202	202	197
125°	282	284	283	284	284	252
135°	350	350	351	352	352	270
145°	403	404	404	405	406	252
155°	442	443	442	443	442	204
165°	467	465	465	468	464	132
175°	477	475	476	479	474	45
180°	477	477	477	477	477	

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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°	1.1	5.0	7.9	10.0	10.7
92.5°	5.4	4.6	7.5	9.6	9.6
95°	19.6	7.5	7.9	10.0	10.4
97.5°	37.5	45.3	7.9	9.6	10.0
100°	58.6	65.0	15.7	9.6	10.0
102.5°	82.1	86.4	90.7	10.4	10.4
105°	107.5	109.6	111.4	114.6	101.7
107.5°	130.7	131.7	134.2	136.0	137.4
110°	154.2	155.3	157.4	158.2	159.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	177.1	179.2	179.9	179.6	181.0
115°	200.6	201.7	201.4	202.1	202.1
117.5°	221.7	223.1	224.2	223.8	223.8
120°	243.1	244.6	244.2	244.9	244.2
122.5°	263.1	263.8	264.5	264.9	264.2
125°	282.0	283.5	282.8	283.8	284.2
127.5°	300.2	300.6	302.4	302.0	301.7
130°	317.7	318.1	319.2	319.5	319.5
132.5°	333.8	334.5	335.9	336.3	335.9
135°	349.9	349.5	350.9	351.7	352.4
137.5°	364.2	364.2	365.9	366.7	366.3
140°	378.1	378.8	379.5	380.6	380.9
142.5°	390.6	392.0	392.4	393.1	393.1
145°	403.4	404.5	404.5	404.9	405.6
147.5°	413.4	415.6	415.2	415.6	415.9
150°	424.5	425.9	425.6	425.6	425.9
152.5°	433.8	434.8	434.1	434.8	434.5
155°	442.3	442.7	441.6	443.1	442.0
157.5°	449.8	449.8	448.4	450.2	448.4
160°	456.3	455.2	454.8	457.0	454.8
162.5°	462.0	460.5	460.2	462.3	459.8
165°	466.6	464.8	464.8	467.7	464.5
167.5°	470.5	468.8	468.4	471.6	468.0
170°	473.8	471.6	472.0	474.8	471.3
172.5°	475.9	473.8	474.1	477.0	473.0
175°	477.3	475.2	475.5	478.8	474.5
177.5°	478.4	475.9	476.6	479.5	475.2
180°	477.3	477.3	477.3	477.3	477.3

(END OF REPORT)