

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: P1026598

Luminaire Tested: S124RDIP-B795D365UB30-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026598
REPORT IS A COMBINATION OF REPORTS P999718 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D365UB30-4F0-XX-W2A-F
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

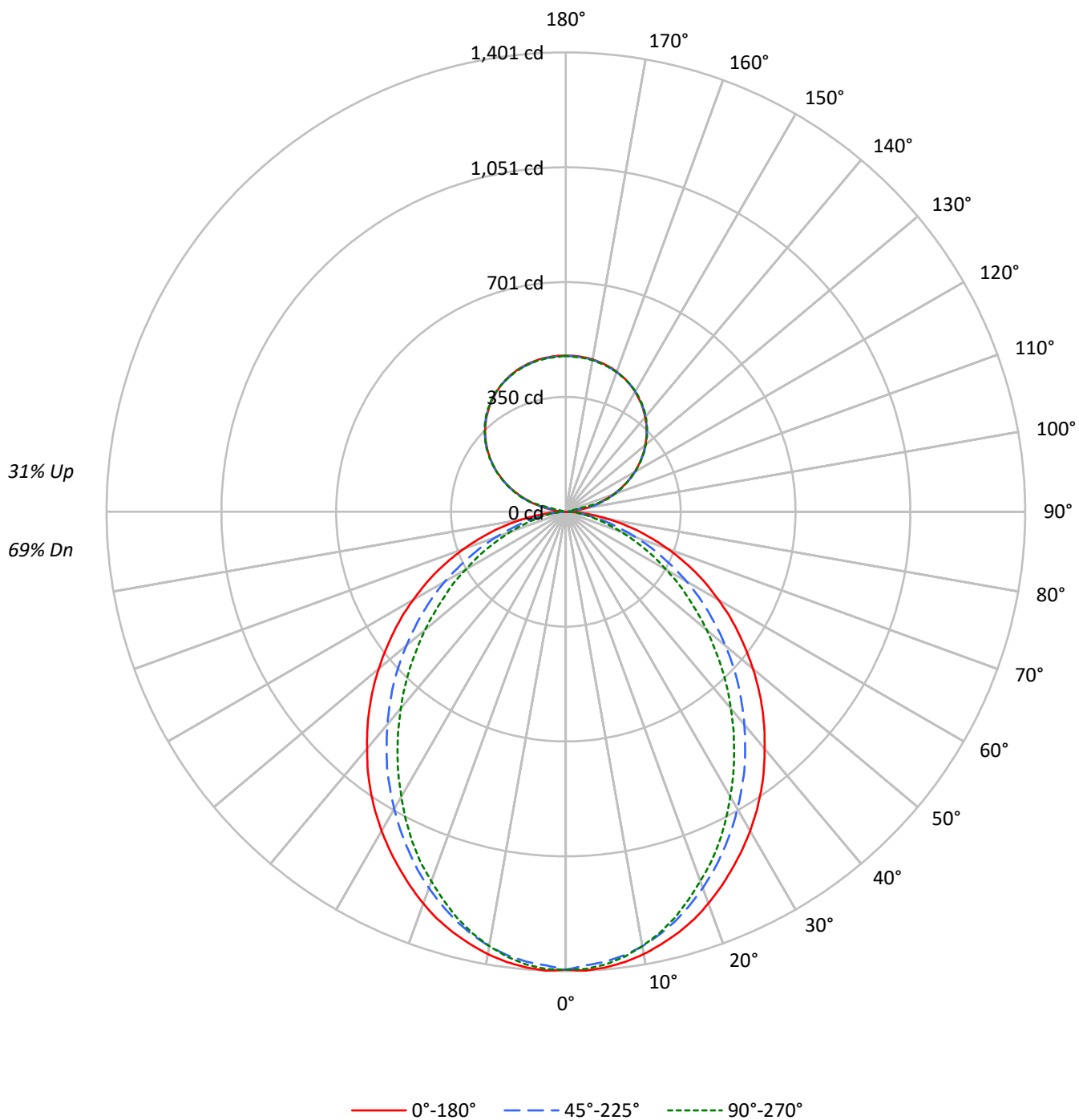
Lumens per Lamp: N/A
Luminaire Lumens: 4699.0 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

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

TEST NUMBER: P1026598

CATALOG NUMBER: S124RDIP-B795D365UB30-4F0-XX-W2A-F

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°	11389	11389	11389
5°	11390	11051	11051
10°	11293	10702	10574
15°	11138	10267	10012
20°	10934	9772	9370
25°	10681	9238	8742
30°	10432	8693	8039
35°	10159	8142	7351
40°	9834	7546	6644
45°	9528	6957	5944
50°	9183	6313	5232
55°	8807	5653	4499
60°	8391	4952	3774
65°	7990	4148	3077
70°	7420	3301	2351
75°	6689	2401	1644
80°	5585	1474	1182
85°	4199	851	650

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9528 cd/sqm

TEST NUMBER: P1026598

CATALOG NUMBER: S124RDIP-B795D365UB30-4F0-XX-W2A-F

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	2.8
10°-20°	366.2	7.8
20°-30°	528.7	11.3
30°-40°	599.1	12.8
40°-50°	578.5	12.3
50°-60°	480.9	10.2
60°-70°	331.9	7.1
70°-80°	167.7	3.6
80°-90°	43.6	0.9
90°-100°	15.8	0.3
100°-110°	103.9	2.2
110°-120°	198.4	4.2
120°-130°	251.9	5.4
130°-140°	269.5	5.7
140°-150°	252.0	5.4
150°-160°	203.2	4.3
160°-170°	131.1	2.8
170°-180°	45.2	1.0
0°-30°	1026.2	21.8
0°-40°	1625.3	34.6
0°-60°	2684.7	57.1
0°-90°	3228.0	68.7
90°-120°	318.1	6.8
90°-150°	1091.6	23.2
90°-180°	1471.0	31.3
0°-180°	4699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1394	1390	1377	1388	1386	132
15°	1328	1318	1292	1290	1282	374
25°	1201	1182	1138	1120	1109	553
35°	1038	1004	951	914	895	649
45°	847	807	743	691	672	653
55°	642	599	529	474	453	574
65°	436	390	322	276	263	431
75°	232	192	142	118	111	245
85°	58	36	33	31	31	63
90°	1	5	8	10	11	4
95°	20	8	8	10	10	24
105°	107	109	111	114	101	112
115°	200	201	200	201	201	197
125°	281	282	282	283	283	251
135°	348	348	350	350	351	269
145°	402	403	403	403	404	251
155°	440	441	440	441	440	203
165°	465	463	463	466	463	131
175°	475	473	474	477	472	45
180°	475	475	475	475	475	

TEST NUMBER: P1026598

CATALOG NUMBER: S124RDIP-B795D365UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1396.6	1396.6	1396.6	1396.6	1396.6
2.5°	1400.9	1396.6	1384.8	1396.6	1395.5
5°	1394.5	1390.2	1377.4	1388.0	1385.9
7.5°	1384.8	1380.6	1364.5	1372.0	1368.8
10°	1369.9	1364.5	1345.3	1349.6	1345.3
12.5°	1350.6	1344.2	1320.7	1322.8	1316.4
15°	1328.2	1318.5	1291.8	1289.7	1282.2
17.5°	1302.5	1288.6	1257.6	1252.2	1241.5
20°	1271.5	1257.6	1221.2	1212.7	1198.8
22.5°	1237.3	1221.2	1181.7	1167.8	1157.1
25°	1200.9	1181.7	1137.8	1119.6	1108.9
27.5°	1163.5	1140.0	1094.0	1072.6	1057.6
30°	1123.9	1097.2	1046.9	1020.2	1003.1
32.5°	1082.2	1051.2	998.8	966.7	950.7
35°	1038.4	1004.1	950.7	914.3	895.1
37.5°	992.4	957.1	898.3	858.7	839.5
40°	943.2	907.9	846.9	802.0	782.8
42.5°	896.1	858.7	794.5	748.6	728.2
45°	846.9	807.4	743.2	690.8	671.6
47.5°	796.7	756.0	689.7	635.2	613.8
50°	745.4	703.6	635.2	581.7	561.4
52.5°	693.0	652.3	581.7	527.2	505.8
55°	641.6	598.8	529.3	473.7	453.4
57.5°	591.4	546.5	478.0	421.3	406.4
60°	536.8	494.1	425.6	370.0	352.9
62.5°	487.6	442.7	372.1	321.9	309.0
65°	436.3	390.3	321.9	275.9	263.1
67.5°	382.8	339.0	274.8	234.2	219.2
70°	332.6	287.7	226.7	191.4	180.7
72.5°	279.1	239.5	182.9	154.0	144.4
75°	232.1	192.5	142.2	117.6	111.2
77.5°	182.9	148.6	105.9	88.8	86.6
80°	135.8	104.8	72.7	69.5	68.4
82.5°	95.2	67.4	52.4	50.3	49.2
85°	57.7	36.4	33.2	31.0	31.0
87.5°	24.6	16.0	15.0	13.9	15.0
90°	1.1	5.0	7.8	10.0	10.7
92.5°	5.3	4.6	7.5	9.6	9.6
95°	19.6	7.5	7.8	10.0	10.3
97.5°	37.3	45.2	7.8	9.6	10.0
100°	58.3	64.7	15.6	9.6	10.0
102.5°	81.8	86.0	90.3	10.3	10.3
105°	107.0	109.2	110.9	114.1	101.3
107.5°	130.1	131.2	133.7	135.5	136.9
110°	153.6	154.7	156.8	157.5	158.6

TEST NUMBER: P1026598

CATALOG NUMBER: S124RDIP-B795D365UB30-4F0-XX-W2A-F

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	176.4	178.5	179.2	178.8	180.3
115°	199.8	200.9	200.5	201.2	201.2
117.5°	220.8	222.2	223.3	222.9	222.9
120°	242.1	243.6	243.2	243.9	243.2
122.5°	262.1	262.8	263.5	263.8	263.1
125°	280.9	282.3	281.6	282.7	283.0
127.5°	299.0	299.4	301.2	300.8	300.5
130°	316.5	316.8	317.9	318.2	318.2
132.5°	332.5	333.2	334.6	334.9	334.6
135°	348.5	348.1	349.5	350.2	350.9
137.5°	362.7	362.7	364.5	365.2	364.8
140°	376.5	377.3	378.0	379.0	379.4
142.5°	389.0	390.4	390.8	391.5	391.5
145°	401.8	402.9	402.9	403.2	403.9
147.5°	411.7	413.9	413.5	413.9	414.2
150°	422.8	424.2	423.8	423.8	424.2
152.5°	432.0	433.1	432.4	433.1	432.7
155°	440.5	440.9	439.8	441.3	440.2
157.5°	448.0	448.0	446.6	448.4	446.6
160°	454.4	453.3	453.0	455.1	453.0
162.5°	460.1	458.7	458.3	460.5	458.0
165°	464.7	462.9	462.9	465.8	462.6
167.5°	468.6	466.9	466.5	469.7	466.1
170°	471.8	469.7	470.1	472.9	469.3
172.5°	474.0	471.8	472.2	475.0	471.1
175°	475.4	473.3	473.6	476.8	472.5
177.5°	476.5	474.0	474.7	477.5	473.3
180°	475.4	475.4	475.4	475.4	475.4

(END OF REPORT)