

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: P1026540

Luminaire Tested: S124RDIP-B795D1035UB30-4F0-XX-W2A-F4

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026540
REPORT IS A COMBINATION OF REPORTS P999640 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D1035UB30-4F0-XX-W2A-F4
Description: Define 4 Regressed Direct/Indirect Pendant with 3000K BioUP LEDs {m-DER=0.589}
{m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

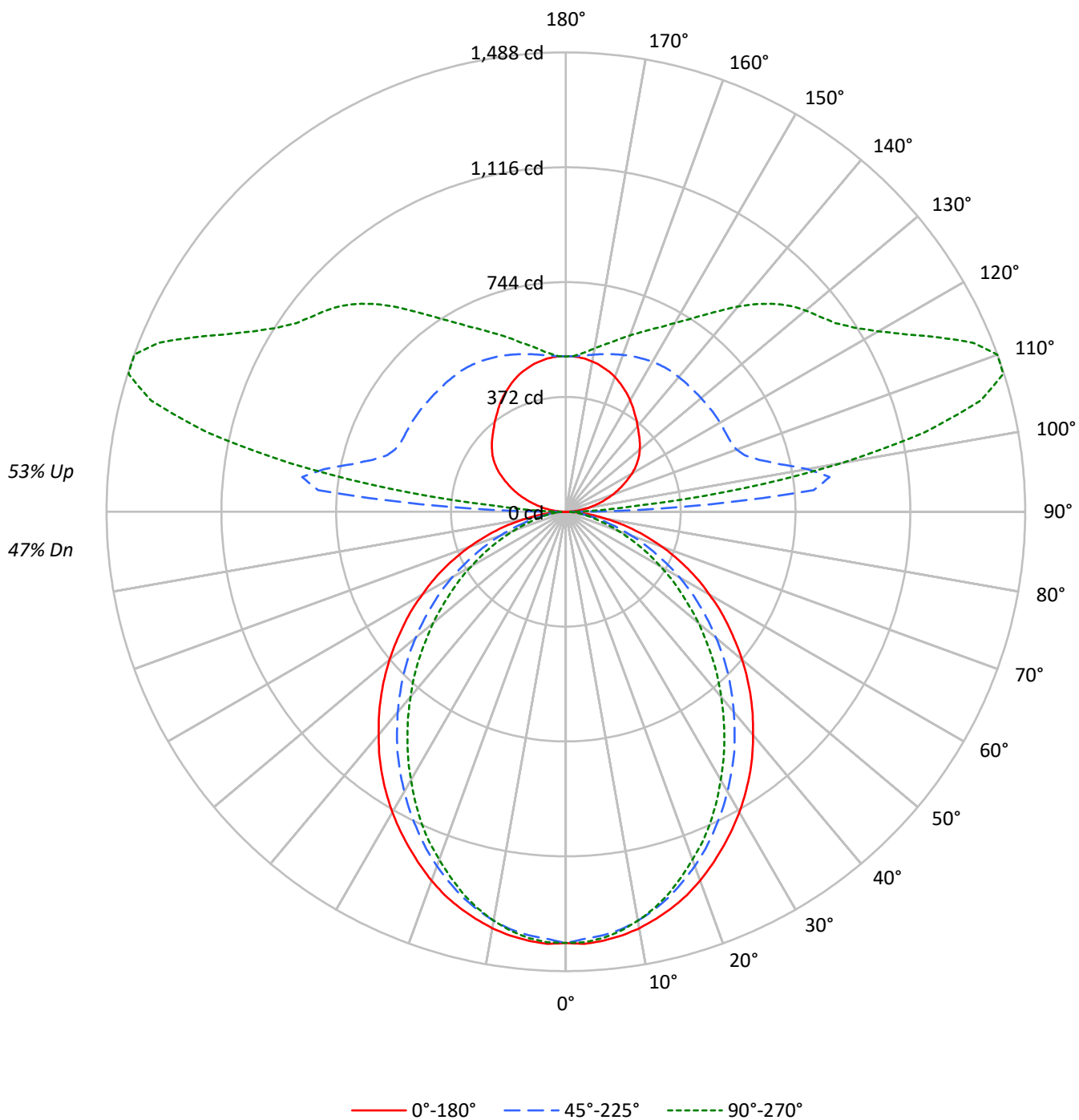
Lumens per Lamp: N/A
Luminaire Lumens: 6900.3 lumens
Efficiency: N/A
Efficacy: 107.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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

TEST NUMBER: P1026540

CATALOG NUMBER: S124RDIP-B795D1035UB30-4F0-XX-W2A-F4

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47	47	47
1	97	93	89	86	89	86	83	80	72	70	67	59	58	56	47	46	45	40	40	40
2	89	82	76	71	81	75	70	66	63	59	56	52	50	47	42	40	39	34	34	34
3	81	72	65	59	74	66	60	55	56	51	48	46	43	40	37	35	33	29	29	29
4	74	64	56	50	68	59	52	47	50	45	41	41	38	35	34	31	29	25	25	25
5	68	57	49	43	63	53	46	40	45	39	35	37	33	30	30	27	25	22	22	22
6	63	51	43	37	58	47	40	35	40	35	31	34	30	26	28	25	22	19	19	19
7	58	46	38	33	53	43	36	31	37	31	27	31	27	23	25	22	20	17	17	17
8	54	42	34	29	50	39	32	27	33	28	24	28	24	21	23	20	18	15	15	15
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	21	18	16	14	14	14
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15	13	13	13

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: P1026540

CATALOG NUMBER: S124RDIP-B795D1035UB30-4F0-XX-W2A-F4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.3	1.9
10°-20°	366.2	5.3
20°-30°	528.7	7.7
30°-40°	599.1	8.7
40°-50°	578.5	8.4
50°-60°	480.9	7.0
60°-70°	331.9	4.8
70°-80°	167.7	2.4
80°-90°	44.5	0.6
90°-100°	373.7	5.4
100°-110°	760.0	11.0
110°-120°	677.5	9.8
120°-130°	569.1	8.2
130°-140°	474.9	6.9
140°-150°	362.7	5.3
150°-160°	254.9	3.7
160°-170°	149.9	2.2
170°-180°	48.8	0.7
0°-30°	1026.2	14.9
0°-40°	1625.3	23.6
0°-60°	2684.7	38.9
0°-90°	3228.9	46.8
90°-120°	1811.2	26.2
90°-150°	3217.8	46.6
90°-180°	3671.0	53.2
0°-180°	6900.3	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	8	18	20	21	6
95°	33	103	806	399	241	36
105°	116	168	648	1396	1391	123
115°	204	255	578	1111	1335	202
125°	284	337	575	945	1066	253
135°	337	401	570	839	953	260
145°	388	445	567	708	778	244
155°	442	477	552	625	651	204
165°	481	496	529	560	568	136
175°	502	503	507	514	512	48
180°	503	503	503	503	503	

TEST NUMBER: P1026540

CATALOG NUMBER: S124RDIP-B795D1035UB30-4F0-XX-W2A-F4

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°	1.0	7.9	17.8	19.8	20.8
92.5°	13.8	76.2	387.4	128.0	89.9
95°	32.6	102.8	805.5	398.8	241.2
97.5°	54.4	113.7	861.8	814.4	579.2
100°	75.1	128.5	794.6	1126.8	906.3
102.5°	94.9	146.3	710.6	1322.4	1191.0
105°	115.6	167.6	648.4	1396.0	1390.6
107.5°	138.4	189.2	607.8	1373.8	1485.5
110°	161.1	211.0	589.1	1294.8	1487.5

TEST NUMBER: P1026540

CATALOG NUMBER: S124RDIP-B795D1035UB30-4F0-XX-W2A-F4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	182.8	232.8	580.2	1197.9	1429.2
115°	203.6	255.4	578.2	1111.0	1335.3
117.5°	225.3	276.8	577.2	1042.7	1243.4
120°	247.1	297.5	577.2	996.8	1168.2
122.5°	266.9	317.8	576.2	966.6	1108.9
125°	283.7	337.0	575.2	945.4	1065.5
127.5°	299.5	354.8	573.2	925.1	1037.8
130°	312.3	372.1	572.3	900.9	1014.1
132.5°	325.2	387.0	571.3	872.2	987.4
135°	337.0	401.2	570.3	839.1	952.8
137.5°	348.9	413.6	570.3	803.6	912.3
140°	361.7	425.0	569.3	769.0	867.8
142.5°	375.6	435.4	569.3	736.8	820.3
145°	388.4	444.8	567.3	707.6	777.8
147.5°	403.3	453.6	564.4	683.4	738.3
150°	417.1	462.0	561.4	661.2	705.7
152.5°	429.9	470.0	556.4	642.4	676.0
155°	441.8	476.9	551.5	624.7	651.3
157.5°	453.7	483.3	546.6	607.8	628.6
160°	464.5	488.8	540.6	591.0	607.8
162.5°	474.4	493.2	534.7	574.8	588.1
165°	481.3	496.2	528.8	559.9	568.3
167.5°	489.2	498.6	522.8	547.0	552.5
170°	494.2	500.6	516.9	534.2	537.7
172.5°	499.1	502.1	511.0	522.8	522.8
175°	502.1	503.1	507.0	513.9	512.0
177.5°	504.1	503.1	504.1	507.5	504.1
180°	503.1	503.1	503.1	503.1	503.1

(END OF REPORT)