

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: P1026557

Luminaire Tested: S124RDIP-B795D1035UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1026557
REPORT IS A COMBINATION OF REPORTS P999657 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIP-B795D1035UB50-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Pendant with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

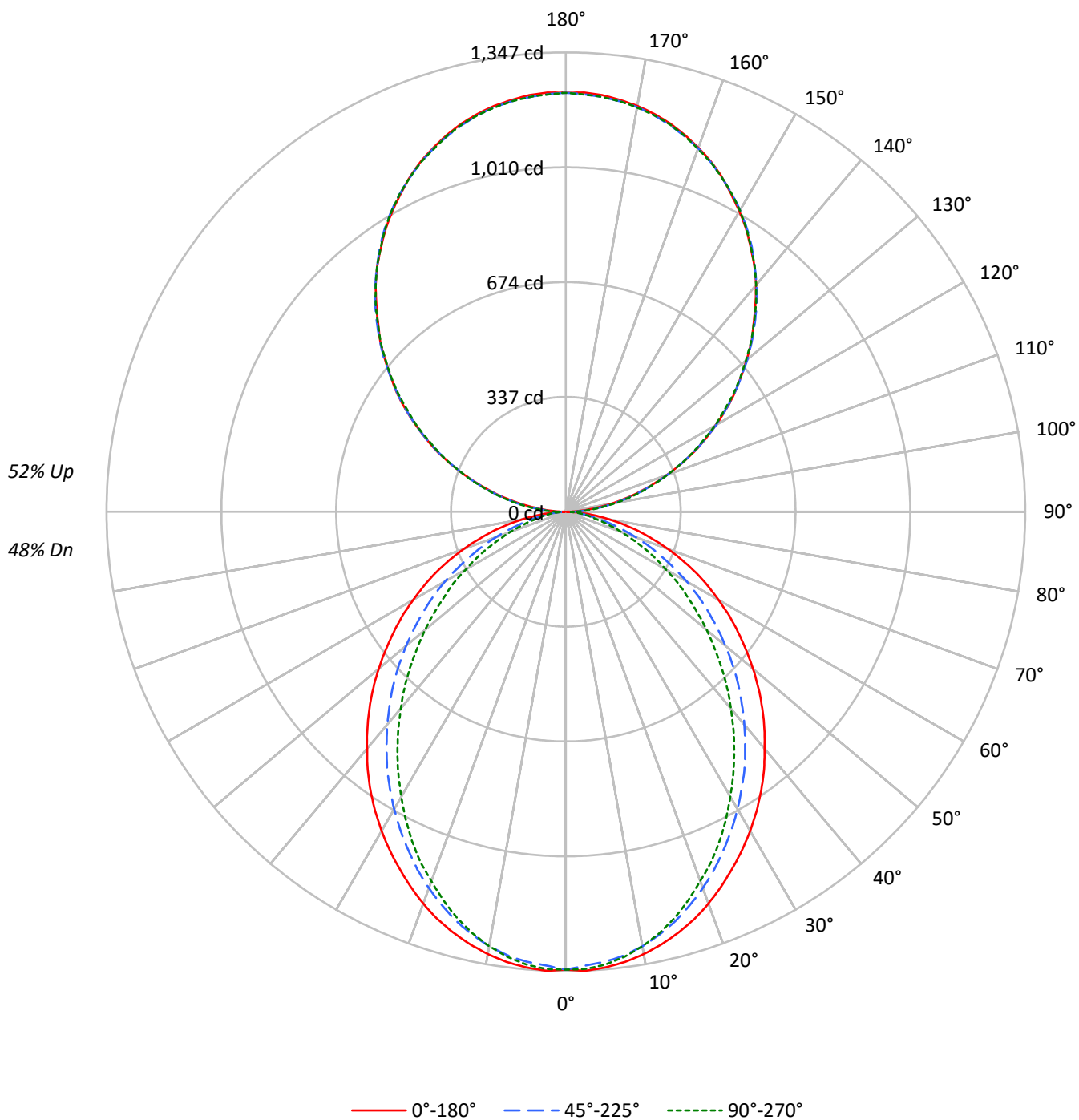
Lumens per Lamp: N/A
Luminaire Lumens: 6514.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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
RCR																	
0	107	107	107	107	98	98	98	98	82	82	82		67	67	67		54
1	98	93	90	86	90	86	83	80	72	70	68		60	58	57		48
2	89	82	76	71	82	75	70	66	64	60	57		53	50	48		43
3	81	72	65	59	75	67	60	55	56	52	48		47	43	41		38
4	75	64	56	50	68	59	52	47	50	45	41		42	38	35		34
5	68	57	49	43	63	53	46	41	45	40	35		38	34	30		31
6	63	51	43	38	58	48	40	35	41	35	31		34	30	27		28
7	58	46	38	33	54	43	36	31	37	31	27		31	27	24		26
8	54	42	34	29	50	39	32	28	34	28	24		28	24	21		24
9	50	38	31	26	46	36	29	25	31	26	22		26	22	19		22
10	47	35	28	23	43	33	26	22	28	23	20		24	20	17		20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10951	10951	10951
5°	10952	10625	10627
10°	10859	10290	10168
15°	10710	9873	9627
20°	10514	9397	9009
25°	10271	8883	8406
30°	10031	8360	7729
35°	9769	7828	7068
40°	9456	7257	6388
45°	9163	6690	5716
50°	8829	6071	5031
55°	8469	5436	4326
60°	8069	4762	3629
65°	7682	3988	2959
70°	7135	3175	2261
75°	6429	2310	1581
80°	5371	1418	1137
85°	4039	817	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9163 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.3	1.9
10°-20°	352.1	5.4
20°-30°	508.3	7.8
30°-40°	576.1	8.8
40°-50°	556.3	8.5
50°-60°	462.5	7.1
60°-70°	319.2	4.9
70°-80°	161.3	2.5
80°-90°	43.6	0.7
90°-100°	80.1	1.2
100°-110°	239.8	3.7
110°-120°	407.4	6.3
120°-130°	537.3	8.2
130°-140°	603.5	9.3
140°-150°	593.2	9.1
150°-160°	498.9	7.7
160°-170°	332.0	5.1
170°-180°	116.2	1.8
0°-30°	986.7	15.1
0°-40°	1562.8	24.0
0°-60°	2581.6	39.6
0°-90°	3105.6	47.7
90°-120°	727.4	11.2
90°-150°	2461.3	37.8
90°-180°	3408.0	52.3
0°-180°	6514.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1343	1343	1343	1343	1343	
5°	1341	1337	1324	1335	1333	127
15°	1277	1268	1242	1240	1233	360
25°	1155	1136	1094	1077	1066	532
35°	998	966	914	879	861	624
45°	814	776	715	664	646	628
55°	617	576	509	456	436	552
65°	420	375	310	265	253	414
75°	223	185	137	113	107	235
85°	56	35	32	30	30	61
90°	3	13	21	27	28	7
95°	57	66	72	75	75	62
105°	221	222	226	229	232	235
115°	414	414	412	411	410	409
125°	603	603	602	600	598	538
135°	778	784	784	782	779	602
145°	945	949	950	949	946	592
155°	1083	1083	1082	1086	1082	498
165°	1179	1176	1174	1180	1176	332
175°	1226	1222	1221	1228	1221	116
180°	1228	1228	1228	1228	1228	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1342.9	1342.9	1342.9	1342.9	1342.9
2.5°	1347.1	1342.9	1331.6	1342.9	1341.9
5°	1340.9	1336.8	1324.4	1334.7	1332.7
7.5°	1331.6	1327.5	1312.1	1319.3	1316.2
10°	1317.2	1312.1	1293.6	1297.7	1293.6
12.5°	1298.7	1292.6	1269.9	1272.0	1265.8
15°	1277.1	1267.9	1242.2	1240.1	1232.9
17.5°	1252.4	1239.1	1209.3	1204.1	1193.8
20°	1222.6	1209.3	1174.3	1166.1	1152.7
22.5°	1189.7	1174.3	1136.3	1122.9	1112.6
25°	1154.8	1136.3	1094.1	1076.6	1066.3
27.5°	1118.8	1096.1	1051.9	1031.4	1017.0
30°	1080.7	1055.0	1006.7	981.0	964.5
32.5°	1040.6	1010.8	960.4	929.6	914.1
35°	998.5	965.6	914.1	879.2	860.7
37.5°	954.2	920.3	863.8	825.7	807.2
40°	906.9	873.0	814.4	771.2	752.7
42.5°	861.7	825.7	764.0	719.8	700.3
45°	814.4	776.4	714.7	664.3	645.8
47.5°	766.1	727.0	663.2	610.8	590.2
50°	716.7	676.6	610.8	559.4	539.8
52.5°	666.3	627.3	559.4	506.9	486.4
55°	617.0	575.8	509.0	455.5	436.0
57.5°	568.6	525.5	459.6	405.1	390.7
60°	516.2	475.1	409.3	355.8	339.3
62.5°	468.9	425.7	357.8	309.5	297.2
65°	419.5	375.3	309.5	265.3	253.0
67.5°	368.1	326.0	264.3	225.2	210.8
70°	319.8	276.6	218.0	184.1	173.8
72.5°	268.4	230.3	175.8	148.1	138.8
75°	223.1	185.1	136.8	113.1	106.9
77.5°	175.8	142.9	101.8	85.3	83.3
80°	130.6	100.8	69.9	66.8	65.8
82.5°	91.5	64.8	50.4	48.3	47.3
85°	55.5	35.0	31.9	29.8	29.8
87.5°	23.7	15.4	14.4	13.4	14.4
90°	2.9	13.3	20.9	26.6	28.5
92.5°	24.7	37.1	41.8	44.7	45.6
95°	57.0	65.6	72.2	75.1	75.1
97.5°	91.2	98.8	106.4	110.2	110.2
100°	133.0	136.8	145.4	147.3	147.3
102.5°	176.7	177.7	185.3	188.1	189.1
105°	221.4	222.3	226.1	229.0	231.8
107.5°	267.9	268.9	269.8	273.6	272.7
110°	315.4	317.3	316.4	314.5	317.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	364.8	364.8	362.9	362.9	362.9
115°	414.2	414.2	412.3	411.4	410.4
117.5°	460.8	460.8	459.8	457.0	454.1
120°	507.3	511.1	508.3	503.5	505.4
122.5°	555.8	556.7	555.8	552.9	548.2
125°	603.3	603.3	602.3	600.4	598.5
127.5°	646.0	648.9	647.0	645.1	644.1
130°	691.6	694.5	694.5	692.6	688.8
132.5°	738.2	740.1	739.1	737.2	736.3
135°	778.1	783.8	783.8	781.9	779.0
137.5°	822.7	825.6	827.5	824.6	825.6
140°	867.4	869.3	869.3	868.3	867.4
142.5°	908.2	910.1	909.2	909.2	909.2
145°	945.3	949.1	950.0	949.1	946.2
147.5°	983.3	988.0	987.1	986.1	985.2
150°	1017.5	1021.3	1021.3	1021.3	1020.3
152.5°	1049.8	1051.7	1052.6	1055.5	1052.6
155°	1083.0	1083.0	1082.1	1085.9	1082.1
157.5°	1111.6	1109.7	1109.7	1112.5	1109.7
160°	1136.3	1135.3	1134.4	1137.2	1132.5
162.5°	1159.1	1156.2	1155.3	1161.0	1156.2
165°	1179.0	1176.2	1174.3	1180.0	1176.2
167.5°	1195.2	1191.4	1191.4	1197.1	1191.4
170°	1208.5	1203.7	1204.7	1210.4	1203.7
172.5°	1218.0	1214.2	1214.2	1220.8	1214.2
175°	1226.5	1221.8	1220.8	1227.5	1220.8
177.5°	1230.3	1225.6	1225.6	1232.2	1224.6
180°	1228.4	1228.4	1228.4	1228.4	1228.4

(END OF REPORT)