

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: P1034309

Luminaire Tested: S124RDIW-B795D770UB40-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034309
REPORT IS A COMBINATION OF REPORTS P1000911 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124RDIW-B795D770UB40-4F0-XX-W2A-F1
Description: Define 4 Regressed Direct/Indirect Wall Mount with 4000K BioUP LEDs {m-DER=0.865}
{m-EER=0.951}
Light Source: -
Ballast/Driver: -

Summary

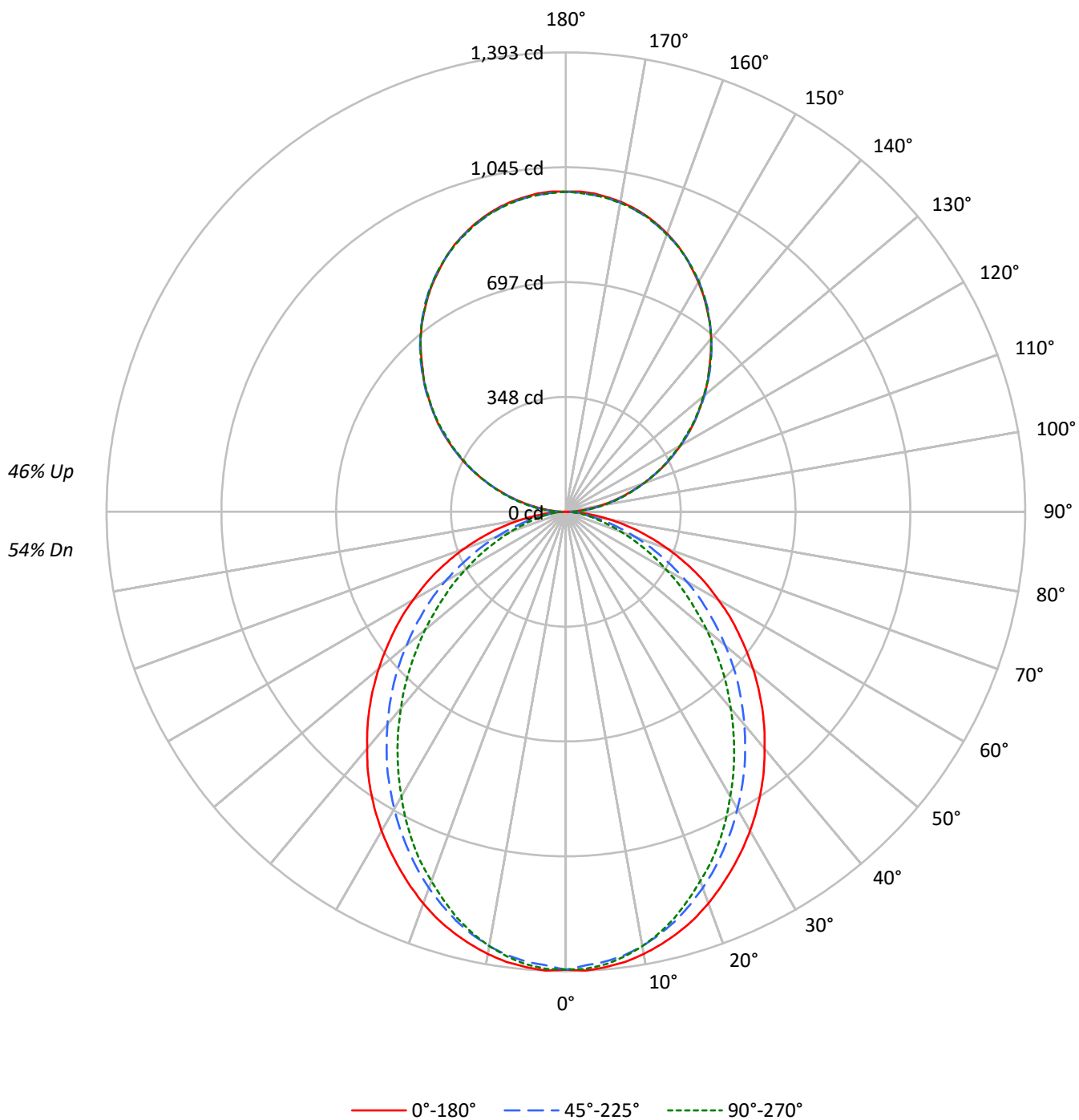
Lumens per Lamp: N/A
Luminaire Lumens: 5903.0 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	52	51
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	38
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	33
5	70	58	50	44	64	54	47	42	47	42	37	41	36	33	34	31	29
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25
7	60	47	39	34	55	44	37	32	39	33	29	34	29	26	29	25	23
8	55	43	35	30	51	40	33	29	35	30	26	31	26	23	26	23	20
9	52	39	32	27	48	37	30	26	33	27	23	28	24	21	24	21	18
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11322	11322	11322
5°	11323	10985	10986
10°	11227	10639	10512
15°	11072	10207	9952
20°	10870	9715	9314
25°	10617	9184	8691
30°	10371	8643	7991
35°	10099	8094	7307
40°	9776	7503	6605
45°	9473	6916	5908
50°	9128	6276	5202
55°	8755	5619	4472
60°	8343	4923	3752
65°	7942	4123	3058
70°	7376	3282	2338
75°	6648	2388	1635
80°	5552	1466	1175
85°	4177	846	646

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9473 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.6	2.2
10°-20°	364.0	6.2
20°-30°	525.5	8.9
30°-40°	595.6	10.1
40°-50°	575.1	9.7
50°-60°	478.1	8.1
60°-70°	330.0	5.6
70°-80°	166.8	2.8
80°-90°	44.4	0.8
90°-100°	63.3	1.1
100°-110°	189.5	3.2
110°-120°	321.9	5.5
120°-130°	424.5	7.2
130°-140°	476.8	8.1
140°-150°	468.6	7.9
150°-160°	394.2	6.7
160°-170°	262.3	4.4
170°-180°	91.8	1.6
0°-30°	1020.1	17.3
0°-40°	1615.7	27.4
0°-60°	2668.9	45.2
0°-90°	3210.1	54.4
90°-120°	574.6	9.7
90°-150°	1944.7	32.9
90°-180°	2693.0	45.6
0°-180°	5903.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1388	1388	1388	1388	1388	
5°	1386	1382	1369	1380	1378	132
15°	1320	1311	1284	1282	1275	372
25°	1194	1175	1131	1113	1102	550
35°	1032	998	945	909	890	645
45°	842	803	739	687	668	649
55°	638	595	526	471	451	571
65°	434	388	320	274	262	428
75°	231	191	141	117	111	243
85°	57	36	33	31	31	63
90°	2	10	16	21	22	7
95°	45	52	57	59	59	49
105°	175	176	179	181	183	185
115°	327	327	326	325	324	323
125°	477	477	476	474	473	425
135°	615	619	619	618	616	476
145°	747	750	751	750	748	467
155°	856	856	855	858	855	394
165°	932	929	928	932	929	263
175°	969	965	964	970	964	92
180°	971	971	971	971	971	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1388.4	1388.4	1388.4	1388.4	1388.4
2.5°	1392.6	1388.4	1376.7	1388.4	1387.3
5°	1386.3	1382.0	1369.2	1379.9	1377.7
7.5°	1376.7	1372.4	1356.5	1363.9	1360.7
10°	1361.8	1356.5	1337.4	1341.6	1337.4
12.5°	1342.7	1336.3	1312.9	1315.0	1308.6
15°	1320.3	1310.8	1284.2	1282.1	1274.6
17.5°	1294.8	1281.0	1250.2	1244.9	1234.2
20°	1264.0	1250.2	1214.0	1205.5	1191.7
22.5°	1230.0	1214.0	1174.7	1160.9	1150.3
25°	1193.8	1174.7	1131.1	1113.0	1102.4
27.5°	1156.6	1133.2	1087.5	1066.3	1051.4
30°	1117.3	1090.7	1040.8	1014.2	997.2
32.5°	1075.8	1045.0	992.9	961.0	945.1
35°	1032.2	998.2	945.1	908.9	889.8
37.5°	986.5	951.5	893.0	853.7	834.5
40°	937.6	902.6	842.0	797.3	778.2
42.5°	890.9	853.7	789.9	744.2	724.0
45°	842.0	802.6	738.8	686.7	667.6
47.5°	792.0	751.6	685.7	631.5	610.2
50°	741.0	699.5	631.5	578.3	558.1
52.5°	688.9	648.5	578.3	524.1	502.8
55°	637.8	595.3	526.2	470.9	450.7
57.5°	587.9	543.2	475.2	418.9	404.0
60°	533.7	491.1	423.1	367.8	350.8
62.5°	484.8	440.1	370.0	320.0	307.2
65°	433.7	388.0	320.0	274.3	261.5
67.5°	380.6	337.0	273.2	232.8	217.9
70°	330.6	286.0	225.4	190.3	179.7
72.5°	277.5	238.1	181.8	153.1	143.5
75°	230.7	191.4	141.4	116.9	110.6
77.5°	181.8	147.8	105.2	88.2	86.1
80°	135.0	104.2	72.3	69.1	68.0
82.5°	94.6	67.0	52.1	50.0	48.9
85°	57.4	36.1	33.0	30.8	30.8
87.5°	24.5	15.9	14.9	13.8	14.9
90°	2.3	10.5	16.5	21.0	22.5
92.5°	19.5	29.3	33.0	35.3	36.0
95°	45.0	51.8	57.0	59.3	59.3
97.5°	72.1	78.1	84.1	87.1	87.1
100°	105.1	108.1	114.8	116.3	116.3
102.5°	139.6	140.4	146.4	148.6	149.4
105°	174.9	175.6	178.6	180.9	183.2
107.5°	211.7	212.4	213.2	216.2	215.4
110°	249.2	250.7	250.0	248.5	250.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	288.2	288.2	286.7	286.7	286.7
115°	327.3	327.3	325.8	325.0	324.3
117.5°	364.1	364.1	363.3	361.0	358.8
120°	400.8	403.8	401.6	397.8	399.3
122.5°	439.1	439.9	439.1	436.9	433.1
125°	476.6	476.6	475.9	474.4	472.9
127.5°	510.4	512.7	511.2	509.7	508.9
130°	546.5	548.7	548.7	547.2	544.2
132.5°	583.2	584.7	584.0	582.5	581.7
135°	614.8	619.3	619.3	617.8	615.5
137.5°	650.0	652.3	653.8	651.5	652.3
140°	685.3	686.8	686.8	686.1	685.3
142.5°	717.6	719.1	718.3	718.3	718.3
145°	746.9	749.9	750.6	749.9	747.6
147.5°	776.9	780.6	779.9	779.1	778.4
150°	803.9	806.9	806.9	806.9	806.2
152.5°	829.4	830.9	831.7	833.9	831.7
155°	855.7	855.7	855.0	858.0	855.0
157.5°	878.2	876.7	876.7	879.0	876.7
160°	897.7	897.0	896.2	898.5	894.7
162.5°	915.8	913.5	912.8	917.3	913.5
165°	931.5	929.3	927.8	932.3	929.3
167.5°	944.3	941.3	941.3	945.8	941.3
170°	954.8	951.0	951.8	956.3	951.0
172.5°	962.3	959.3	959.3	964.5	959.3
175°	969.1	965.3	964.5	969.8	964.5
177.5°	972.1	968.3	968.3	973.6	967.5
180°	970.6	970.6	970.6	970.6	970.6

(END OF REPORT)