

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: P1032815

Luminaire Tested: S124DIW-B795D470UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032815
REPORT IS A COMBINATION OF REPORTS P998155 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B795D470UB2750-4F0-XX-W2A-D_2700K
Description: Define 4 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

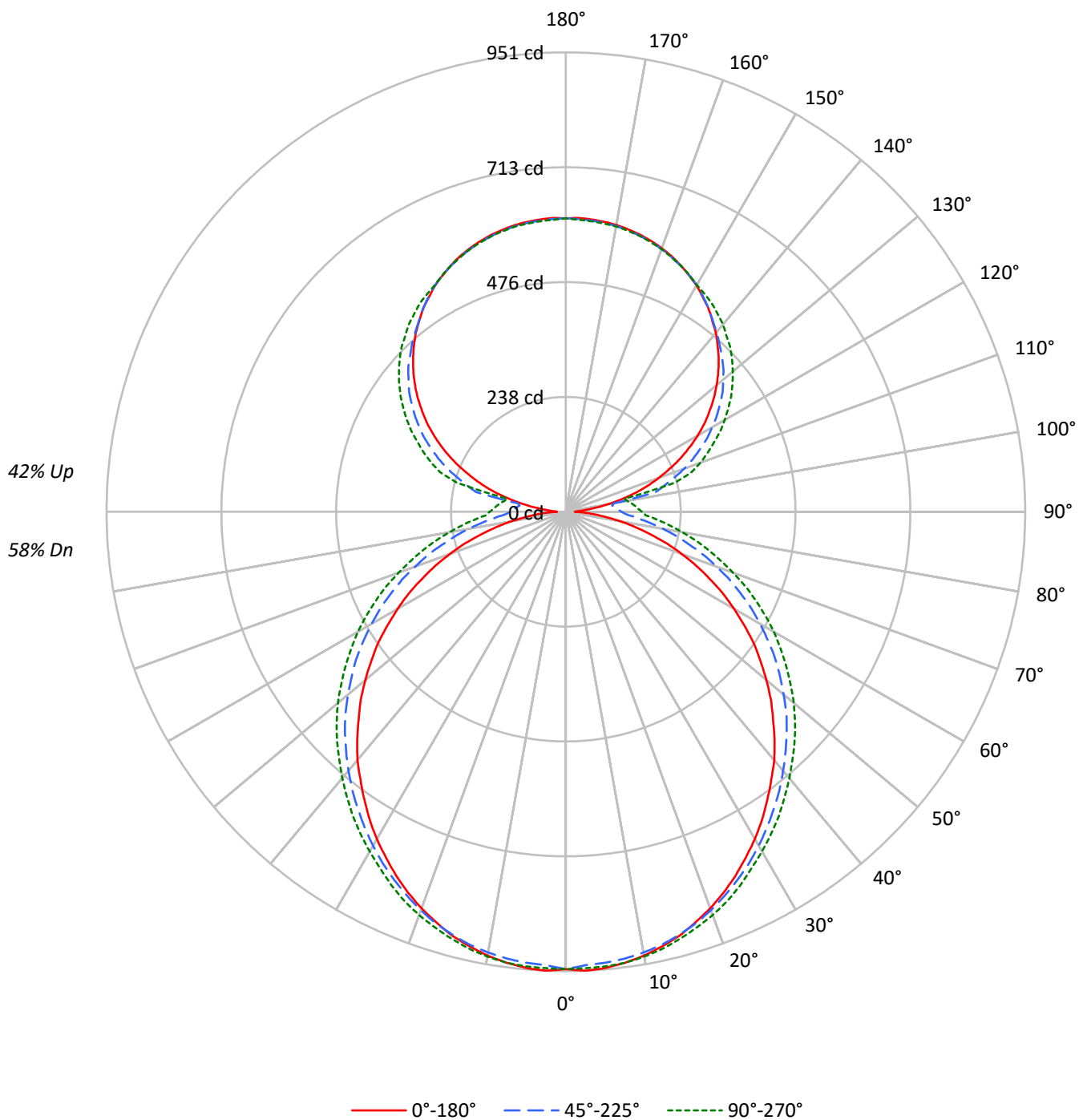
Lumens per Lamp: N/A
Luminaire Lumens: 5109.0 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 49.1
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	109	109	109	109		102	102	102	102		88	88	88		75	75	75		64	64	64
1	99	94	89	85		92	87	83	80		75	73	70		65	62	60		55	53	52
2	89	81	74	69		83	76	70	65		65	61	57		56	53	50		47	45	43
3	81	71	63	57		75	66	59	53		57	52	47		49	45	41		42	38	36
4	74	62	54	48		69	58	51	45		51	45	40		44	39	35		37	33	30
5	68	56	47	41		63	52	44	38		45	39	34		39	34	30		33	29	26
6	62	50	41	35		58	47	39	33		41	34	30		35	30	26		30	26	23
7	58	45	36	31		54	42	34	29		37	31	26		32	27	23		27	23	20
8	54	41	33	27		50	38	31	26		34	27	23		29	24	21		25	21	18
9	50	37	29	24		46	35	28	23		31	25	21		27	22	18		23	19	16
10	47	34	27	22		43	32	25	21		28	23	19		25	20	17		21	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7721	7721	7721
5°	7742	7519	7533
10°	7692	7371	7350
15°	7619	7205	7144
20°	7513	7025	6944
25°	7393	6827	6729
30°	7263	6630	6508
35°	7116	6428	6313
40°	6997	6236	6110
45°	6824	6054	5931
50°	6674	5848	5741
55°	6520	5650	5523
60°	6281	5403	5319
65°	6020	5136	5071
70°	5700	4833	4786
75°	5256	4494	4514
80°	4754	4149	4230
85°	4090	3803	3999

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6824 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.8
10°-20°	257.0	5.0
20°-30°	388.6	7.6
30°-40°	470.2	9.2
40°-50°	497.1	9.7
50°-60°	467.8	9.2
60°-70°	388.2	7.6
70°-80°	272.4	5.3
80°-90°	154.8	3.0
90°-100°	111.6	2.2
100°-110°	200.5	3.9
110°-120°	299.0	5.9
120°-130°	347.5	6.8
130°-140°	355.4	7.0
140°-150°	324.2	6.3
150°-160°	259.7	5.1
160°-170°	167.5	3.3
170°-180°	57.7	1.1
0°-30°	735.4	14.4
0°-40°	1205.6	23.6
0°-60°	2170.4	42.5
0°-90°	2985.8	58.4
90°-120°	611.1	12.0
90°-150°	1638.3	32.1
90°-180°	2123.0	41.6
0°-180°	5109.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	947	947	947	947	947	
5°	948	945	937	946	945	90
15°	909	910	906	916	915	256
25°	831	838	841	852	854	383
35°	727	740	751	766	769	455
45°	606	627	647	665	670	469
55°	475	497	529	550	557	423
65°	329	363	399	425	434	326
75°	182	222	266	296	305	194
85°	56	101	148	180	191	59
90°	18	66	115	148	158	13
95°	39	58	102	134	144	42
105°	146	170	212	242	234	154
115°	262	273	306	330	338	258
125°	363	364	390	411	418	325
135°	447	447	456	474	481	345
145°	514	515	515	522	527	322
155°	563	563	562	564	562	260
165°	594	592	592	595	591	168
175°	608	605	605	609	604	58
180°	608	608	608	608	608	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	946.8	946.8	946.8	946.8	946.8
2.5°	951.0	947.9	939.4	946.8	945.7
5°	947.9	944.7	937.2	945.7	944.7
7.5°	941.5	939.4	933.0	942.6	941.5
10°	933.0	931.9	926.6	936.2	935.1
12.5°	921.3	921.3	918.2	926.6	926.6
15°	908.6	909.7	906.5	916.0	915.0
17.5°	891.7	894.8	893.8	903.3	902.3
20°	873.6	876.8	877.9	888.5	888.5
22.5°	853.5	857.7	859.9	870.5	872.6
25°	831.2	837.6	840.8	852.4	853.5
27.5°	806.8	816.4	820.6	831.2	832.3
30°	782.5	790.9	798.4	810.0	812.1
32.5°	755.9	766.6	775.0	788.8	790.9
35°	727.3	740.0	750.6	765.5	768.7
37.5°	698.7	713.5	726.3	741.1	744.3
40°	671.1	684.9	699.8	715.7	719.9
42.5°	639.3	655.2	673.3	691.3	694.5
45°	606.5	626.6	646.7	664.8	670.1
47.5°	575.7	595.9	619.2	637.2	643.6
50°	541.8	565.1	588.4	609.6	616.0
52.5°	507.9	531.2	558.7	579.9	586.3
55°	475.0	497.3	529.1	550.3	556.6
57.5°	437.9	465.4	496.2	521.6	526.9
60°	401.8	429.4	464.4	488.8	497.3
62.5°	366.8	397.6	432.6	457.0	465.4
65°	328.7	362.6	398.6	425.2	433.6
67.5°	292.6	328.7	366.8	393.3	401.8
70°	255.5	291.6	331.9	360.5	367.9
72.5°	219.5	256.6	300.0	327.6	336.1
75°	182.4	221.6	266.1	295.8	305.3
77.5°	147.4	188.7	235.4	265.1	275.7
80°	115.6	158.0	204.6	236.4	244.9
82.5°	83.8	128.3	174.9	207.8	217.3
85°	56.2	100.7	148.4	180.2	190.8
87.5°	35.0	78.5	125.1	155.9	165.4
90°	18.4	65.8	115.0	148.4	157.8
92.5°	22.7	58.9	108.1	140.6	149.1
95°	38.8	58.3	102.2	133.6	143.6
97.5°	60.4	101.2	96.9	126.8	136.7
100°	86.2	121.9	100.6	121.5	129.3
102.5°	116.2	145.0	190.7	116.0	124.5
105°	146.3	170.2	211.8	242.3	234.5
107.5°	175.8	195.3	235.5	264.3	273.5
110°	204.8	220.9	260.8	286.1	295.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	232.8	248.2	284.1	307.0	317.3
115°	261.7	272.6	306.1	330.4	337.8
117.5°	288.6	296.7	329.8	351.7	360.2
120°	314.7	319.7	350.0	372.1	379.7
122.5°	340.2	341.1	370.6	392.2	398.8
125°	363.1	364.0	389.6	411.0	417.9
127.5°	386.3	385.8	409.2	427.9	434.8
130°	407.6	406.9	425.3	444.9	451.2
132.5°	428.0	427.8	442.4	460.9	466.8
135°	447.4	446.9	456.1	474.0	481.4
137.5°	465.5	464.5	471.0	487.8	492.7
140°	483.3	483.2	485.1	500.2	506.0
142.5°	498.2	500.0	499.3	511.9	516.1
145°	514.5	514.8	514.8	521.6	526.8
147.5°	527.2	528.9	528.4	530.0	534.6
150°	541.3	542.0	541.6	541.6	542.0
152.5°	552.0	553.4	552.5	553.4	553.0
155°	562.9	563.4	562.0	563.9	562.5
157.5°	572.5	572.5	570.7	572.9	570.7
160°	580.7	579.3	578.9	581.6	578.9
162.5°	587.9	586.1	585.7	588.4	585.2
165°	593.8	591.6	591.6	595.2	591.1
167.5°	598.8	596.6	596.1	600.2	595.7
170°	602.9	600.2	600.7	604.3	599.8
172.5°	605.7	602.9	603.4	607.0	602.0
175°	607.5	604.8	605.2	609.3	603.8
177.5°	608.8	605.7	606.6	610.2	604.8
180°	607.5	607.5	607.5	607.5	607.5

(END OF REPORT)