

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: P1033709

Luminaire Tested: S124DIW-B795D1340UB27-4F0-XX-W2A-D

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033709
REPORT IS A COMBINATION OF REPORTS P998008 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B795D1340UB27-4F0-XX-W2A-D
Description: Define 4 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

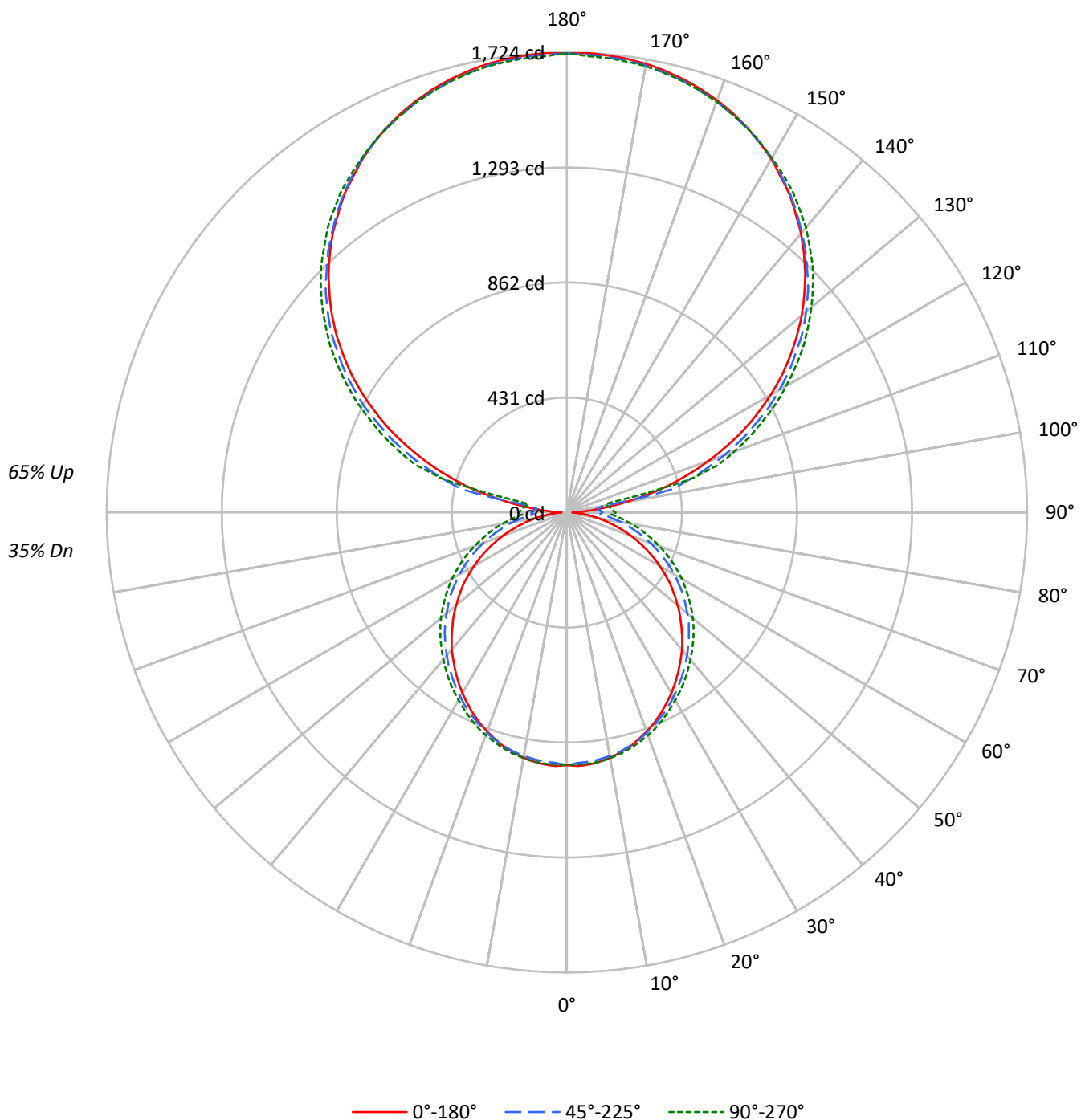
Lumens per Lamp: N/A
Luminaire Lumens: 8554.0 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 78
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42
1	94	89	85	81	84	81	77	74	65	62	60	50	48	47	36	35	34
2	85	77	71	66	76	70	65	60	56	52	49	43	41	38	31	30	28
3	77	68	60	54	69	61	55	50	49	45	41	38	35	32	28	25	24
4	71	60	52	46	63	54	47	42	43	38	34	34	30	27	24	22	20
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15
7	55	43	35	29	49	39	32	27	31	26	22	24	21	18	18	15	13
8	51	38	31	26	46	35	28	24	28	23	20	22	19	16	17	14	12
9	47	35	28	23	42	32	25	21	26	21	17	20	17	14	15	13	11
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10

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	1.0
10°-20°	257.0	3.0
20°-30°	388.6	4.5
30°-40°	470.2	5.5
40°-50°	497.1	5.8
50°-60°	467.8	5.5
60°-70°	388.2	4.5
70°-80°	272.4	3.2
80°-90°	157.1	1.8
90°-100°	148.5	1.7
100°-110°	443.7	5.2
110°-120°	763.4	8.9
120°-130°	937.1	11.0
130°-140°	986.2	11.5
140°-150°	914.0	10.7
150°-160°	735.3	8.6
160°-170°	474.2	5.5
170°-180°	163.4	1.9
0°-30°	735.4	8.6
0°-40°	1205.6	14.1
0°-60°	2170.4	25.4
0°-90°	2988.1	34.9
90°-120°	1355.7	15.8
90°-150°	4192.9	49.0
90°-180°	5566.0	65.1
0°-180°	8554.0	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°	21	77	133	172	183	15
95°	85	76	120	157	168	98
105°	397	426	471	510	472	416
115°	729	743	775	801	809	718
125°	1020	1025	1049	1073	1080	912
135°	1263	1262	1274	1294	1303	973
145°	1455	1458	1458	1465	1472	909
155°	1594	1595	1591	1596	1593	735
165°	1682	1675	1675	1685	1674	475
175°	1720	1712	1714	1725	1710	164
180°	1720	1720	1720	1720	1720	

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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°	20.9	77.4	133.3	171.7	182.8
92.5°	35.2	69.7	125.6	163.0	171.5
95°	84.6	75.8	120.5	156.9	167.7
97.5°	147.8	206.9	115.2	149.2	160.0
100°	222.7	273.3	137.2	143.9	152.6
102.5°	307.6	346.3	402.1	140.1	148.6
105°	396.7	425.7	471.4	509.5	471.7
107.5°	480.4	502.3	548.4	581.4	593.9
110°	564.3	582.9	627.7	654.7	667.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	645.5	665.9	703.5	725.6	739.2
115°	729.4	742.8	775.4	801.4	808.8
117.5°	805.3	816.8	852.4	873.4	881.9
120°	881.4	889.8	919.2	942.9	948.9
122.5°	953.5	956.0	987.2	1009.7	1014.6
125°	1020.5	1024.7	1048.6	1072.6	1080.3
127.5°	1086.1	1086.4	1114.1	1131.9	1138.0
130°	1148.2	1148.4	1169.2	1189.6	1195.9
132.5°	1206.1	1207.6	1225.4	1244.8	1249.8
135°	1262.9	1261.6	1274.1	1293.7	1302.7
137.5°	1314.3	1313.3	1324.0	1342.4	1346.5
140°	1364.5	1366.1	1369.7	1387.3	1393.9
142.5°	1408.5	1413.7	1413.9	1428.1	1432.3
145°	1454.8	1457.6	1457.6	1465.3	1472.1
147.5°	1490.9	1497.5	1496.2	1498.6	1504.1
150°	1530.7	1534.8	1533.5	1533.5	1534.8
152.5°	1563.1	1567.0	1564.4	1567.0	1565.7
155°	1594.0	1595.3	1591.4	1596.5	1592.7
157.5°	1621.0	1621.0	1615.8	1622.3	1615.8
160°	1644.1	1640.3	1639.0	1646.7	1639.0
162.5°	1664.7	1659.6	1658.3	1666.0	1657.0
165°	1681.5	1675.0	1675.0	1685.3	1673.7
167.5°	1695.6	1689.2	1687.9	1699.5	1686.6
170°	1707.2	1699.5	1700.8	1711.0	1698.2
172.5°	1714.9	1707.2	1708.5	1718.8	1704.6
175°	1720.1	1712.3	1713.6	1725.2	1709.8
177.5°	1723.9	1714.9	1717.5	1727.8	1712.3
180°	1720.1	1720.1	1720.1	1720.1	1720.1

(END OF REPORT)