

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: P1033722

Luminaire Tested: S124DIW-B795D1340UB35-4F0-XX-W2A-D1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1033722
REPORT IS A COMBINATION OF REPORTS P998048 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B795D1340UB35-4F0-XX-W2A-D1
Description: Define 4 Direct/Indirect Wall Mount with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

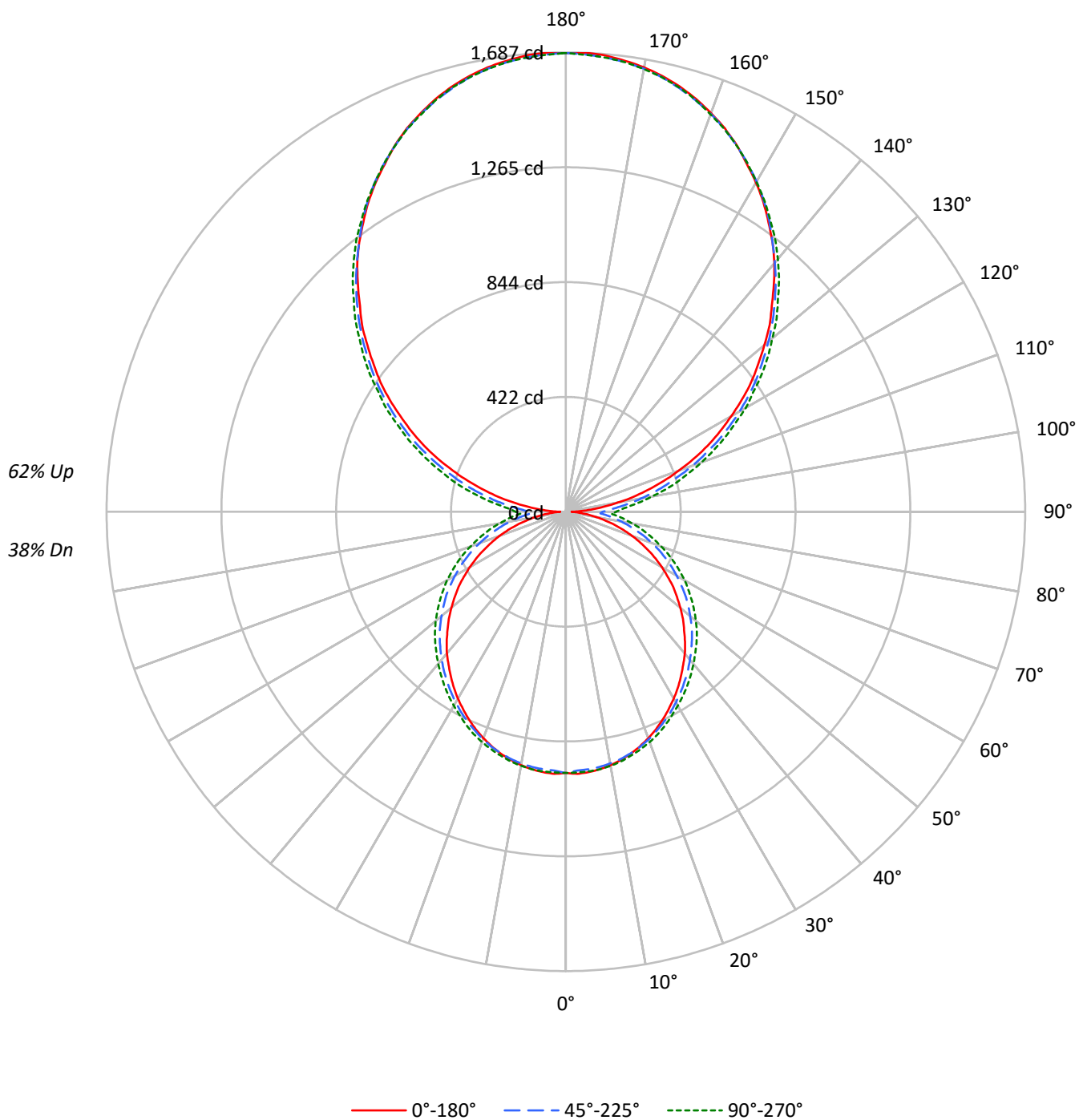
Lumens per Lamp: N/A
Luminaire Lumens: 7947.9 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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	50	30	10
RCR																				
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45			38
1	94	90	86	82	85	81	78	75	66	64	61	52	50	49	39	38	37			30
2	86	78	72	66	77	71	65	61	57	53	50	45	42	40	34	32	30			25
3	78	68	61	55	70	62	55	50	50	46	42	39	36	33	29	27	25			21
4	71	60	52	46	64	55	48	42	44	39	35	35	31	28	26	24	22			18
5	65	53	45	39	59	49	41	36	40	34	30	31	27	24	23	21	19			15
6	60	48	40	34	54	43	36	31	36	30	26	28	24	21	21	18	16			13
7	55	43	35	29	50	39	32	27	32	27	23	25	22	19	19	16	14			12
8	51	39	31	26	46	35	29	24	29	24	20	23	19	16	18	15	13			10
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	14	11			9
10	44	32	25	20	40	30	23	19	24	19	16	20	16	13	15	12	10			8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7821	7821	7821
5°	7843	7617	7631
10°	7791	7467	7446
15°	7718	7299	7237
20°	7611	7116	7034
25°	7489	6915	6816
30°	7357	6715	6593
35°	7208	6512	6395
40°	7089	6317	6190
45°	6911	6133	6008
50°	6761	5924	5816
55°	6605	5723	5595
60°	6364	5473	5387
65°	6097	5203	5138
70°	5774	4896	4849
75°	5323	4553	4573
80°	4816	4204	4286
85°	4141	3854	4052

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6911 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	1.1
10°-20°	260.4	3.3
20°-30°	393.7	5.0
30°-40°	476.3	6.0
40°-50°	503.5	6.3
50°-60°	473.9	6.0
60°-70°	393.2	4.9
70°-80°	276.0	3.5
80°-90°	159.2	2.0
90°-100°	202.4	2.5
100°-110°	397.5	5.0
110°-120°	604.8	7.6
120°-130°	762.8	9.6
130°-140°	838.9	10.6
140°-150°	815.7	10.3
150°-160°	684.2	8.6
160°-170°	455.2	5.7
170°-180°	159.4	2.0
0°-30°	744.9	9.4
0°-40°	1221.2	15.4
0°-60°	2198.6	27.7
0°-90°	3027.0	38.1
90°-120°	1204.7	15.2
90°-150°	3622.1	45.6
90°-180°	4921.0	61.9
0°-180°	7947.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	959	959	959	959	959	
5°	960	957	949	958	957	91
15°	920	922	918	928	927	259
25°	842	848	852	864	865	388
35°	737	750	760	776	779	461
45°	614	635	655	673	679	475
55°	481	504	536	557	564	429
65°	333	367	404	431	439	330
75°	185	224	270	300	309	196
85°	57	102	150	183	193	59
90°	21	78	135	174	185	17
95°	92	139	192	225	235	96
105°	313	336	381	412	424	333
115°	574	584	616	638	644	567
125°	832	831	856	874	878	742
135°	1069	1077	1085	1099	1102	828
145°	1298	1302	1303	1308	1308	812
155°	1485	1485	1484	1489	1484	684
165°	1617	1613	1610	1618	1613	456
175°	1682	1676	1674	1683	1674	160
180°	1685	1685	1685	1685	1685	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	959.1	959.1	959.1	959.1	959.1
2.5°	963.4	960.2	951.6	959.1	958.0
5°	960.2	957.0	949.4	958.0	957.0
7.5°	953.7	951.6	945.1	954.8	953.7
10°	945.1	944.1	938.7	948.4	947.3
12.5°	933.3	933.3	930.1	938.7	938.7
15°	920.4	921.5	918.3	928.0	926.9
17.5°	903.3	906.5	905.4	915.1	914.0
20°	885.0	888.2	889.3	900.0	900.0
22.5°	864.6	868.9	871.0	881.8	883.9
25°	842.0	848.5	851.7	863.5	864.6
27.5°	817.3	827.0	831.3	842.0	843.1
30°	792.6	801.2	808.7	820.6	822.7
32.5°	765.8	776.5	785.1	799.1	801.2
35°	736.8	749.7	760.4	775.5	778.7
37.5°	707.8	722.8	735.7	750.7	754.0
40°	679.9	693.8	708.9	725.0	729.3
42.5°	647.6	663.8	682.0	700.3	703.5
45°	614.3	634.8	655.2	673.4	678.8
47.5°	583.2	603.6	627.2	645.5	651.9
50°	548.8	572.5	596.1	617.6	624.0
52.5°	514.5	538.1	566.0	587.5	593.9
55°	481.2	503.7	535.9	557.4	563.9
57.5°	443.6	471.5	502.6	528.4	533.8
60°	407.1	435.0	470.4	495.1	503.7
62.5°	371.6	402.8	438.2	462.9	471.5
65°	332.9	367.3	403.8	430.7	439.3
67.5°	296.4	332.9	371.6	398.5	407.1
70°	258.8	295.4	336.2	365.2	372.7
72.5°	222.3	259.9	304.0	331.9	340.5
75°	184.7	224.5	269.6	299.7	309.3
77.5°	149.3	191.2	238.4	268.5	279.2
80°	117.1	160.0	207.3	239.5	248.1
82.5°	84.8	130.0	177.2	210.5	220.2
85°	56.9	102.0	150.4	182.6	193.3
87.5°	35.4	79.5	126.7	157.9	167.5
90°	21.1	78.3	135.0	174.0	185.2
92.5°	50.0	104.5	157.2	191.2	201.1
95°	92.2	139.3	192.4	225.3	235.0
97.5°	138.0	179.5	234.0	267.1	276.8
100°	194.2	227.3	280.9	312.6	320.1
102.5°	254.1	279.0	330.4	362.2	372.1
105°	313.3	336.0	381.0	411.7	424.2
107.5°	377.1	396.6	435.5	467.6	473.8
110°	441.2	458.8	495.1	517.2	529.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	507.8	520.7	553.5	577.2	585.8
115°	574.5	584.2	616.0	638.3	644.5
117.5°	638.3	644.8	675.7	694.4	699.1
120°	701.2	709.6	736.8	751.8	763.0
122.5°	767.6	768.9	796.6	814.1	815.2
125°	831.7	830.6	856.2	874.0	877.7
127.5°	890.3	893.1	912.0	928.7	935.0
130°	951.7	954.5	971.7	988.5	989.7
132.5°	1015.6	1017.1	1028.7	1044.4	1049.5
135°	1069.2	1077.0	1084.6	1099.2	1101.7
137.5°	1130.4	1133.3	1140.3	1152.4	1159.1
140°	1191.7	1193.3	1194.3	1207.0	1211.1
142.5°	1246.7	1249.3	1246.9	1258.7	1263.0
145°	1297.5	1301.6	1302.9	1308.0	1308.4
147.5°	1349.6	1355.0	1353.7	1353.5	1356.5
150°	1396.5	1400.7	1400.7	1400.7	1399.3
152.5°	1439.7	1442.3	1443.6	1447.6	1443.6
155°	1485.3	1485.3	1484.0	1489.3	1484.0
157.5°	1524.4	1521.8	1521.8	1525.7	1521.8
160°	1558.3	1557.0	1555.7	1559.6	1553.1
162.5°	1589.6	1585.7	1584.4	1592.2	1585.7
165°	1616.9	1613.0	1610.4	1618.2	1613.0
167.5°	1639.1	1633.9	1633.9	1641.7	1633.9
170°	1657.3	1650.8	1652.1	1659.9	1650.8
172.5°	1670.4	1665.1	1665.1	1674.3	1665.1
175°	1682.1	1675.6	1674.3	1683.4	1674.3
177.5°	1687.3	1680.8	1680.8	1689.9	1679.5
180°	1684.7	1684.7	1684.7	1684.7	1684.7

(END OF REPORT)