

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: P1032784

Luminaire Tested: S124DIW-B795D1340UB2750-4F0-XX-W2A-D1_5000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032784
REPORT IS A COMBINATION OF REPORTS P998021 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S124DIW-B795D1340UB2750-4F0-XX-W2A-D1_5000K
Description: Define 4 Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015} {m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

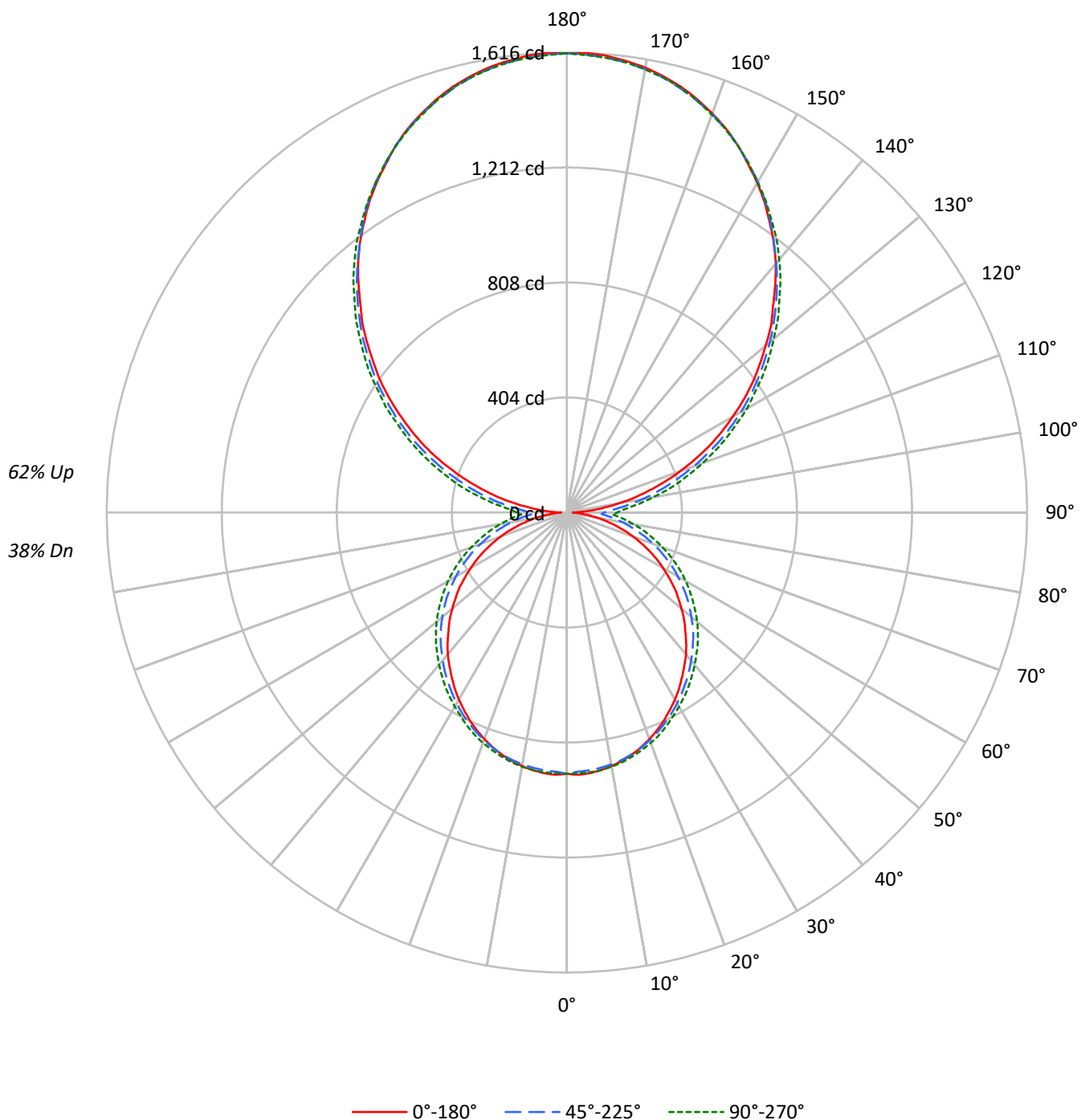
Lumens per Lamp: N/A
Luminaire Lumens: 7609.0 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.28 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

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

TEST NUMBER: P1032784

CATALOG NUMBER: S124DIW-B795D1340UB2750-4F0-XX-W2A-D1_5000K

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°	7486	7486	7486
5°	7507	7291	7304
10°	7458	7147	7127
15°	7388	6986	6927
20°	7285	6812	6733
25°	7168	6619	6524
30°	7042	6428	6311
35°	6899	6234	6121
40°	6785	6046	5924
45°	6616	5870	5750
50°	6471	5671	5567
55°	6323	5478	5355
60°	6090	5239	5157
65°	5836	4980	4918
70°	5528	4686	4641
75°	5095	4357	4378
80°	4611	4024	4103
85°	3966	3687	3878

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6616 cd/sqm

TEST NUMBER: P1032784

CATALOG NUMBER: S124DIW-B795D1340UB2750-4F0-XX-W2A-D1_5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.1
10°-20°	249.2	3.3
20°-30°	376.8	5.0
30°-40°	455.9	6.0
40°-50°	482.0	6.3
50°-60°	453.6	6.0
60°-70°	376.4	4.9
70°-80°	264.1	3.5
80°-90°	152.4	2.0
90°-100°	193.8	2.5
100°-110°	380.6	5.0
110°-120°	579.0	7.6
120°-130°	730.4	9.6
130°-140°	803.2	10.6
140°-150°	781.0	10.3
150°-160°	655.1	8.6
160°-170°	435.9	5.7
170°-180°	152.6	2.0
0°-30°	713.1	9.4
0°-40°	1169.0	15.4
0°-60°	2104.5	27.7
0°-90°	2897.4	38.1
90°-120°	1153.4	15.2
90°-150°	3468.0	45.6
90°-180°	4712.0	61.9
0°-180°	7609.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	919	916	909	917	916	87
15°	881	882	879	888	887	248
25°	806	812	815	827	828	371
35°	705	718	728	742	745	442
45°	588	608	627	645	650	454
55°	461	482	513	534	540	410
65°	319	352	386	412	420	316
75°	177	215	258	287	296	188
85°	54	98	144	175	185	57
90°	20	75	129	166	177	17
95°	88	133	184	216	225	92
105°	300	322	365	394	406	319
115°	550	559	590	611	617	543
125°	796	795	820	837	840	710
135°	1024	1031	1038	1052	1055	792
145°	1242	1246	1248	1252	1253	778
155°	1422	1422	1421	1426	1421	655
165°	1548	1544	1542	1549	1544	437
175°	1610	1604	1603	1612	1603	153
180°	1613	1613	1613	1613	1613	

TEST NUMBER: P1032784

CATALOG NUMBER: S124DIW-B795D1340UB2750-4F0-XX-W2A-D1_5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.0	918.0	918.0	918.0	918.0
2.5°	922.2	919.1	910.9	918.0	917.0
5°	919.1	916.0	908.8	917.0	916.0
7.5°	912.9	910.9	904.7	913.9	912.9
10°	904.7	903.7	898.5	907.8	906.7
12.5°	893.4	893.4	890.3	898.5	898.5
15°	881.0	882.1	879.0	888.2	887.2
17.5°	864.6	867.7	866.6	875.9	874.9
20°	847.1	850.2	851.2	861.5	861.5
22.5°	827.6	831.7	833.7	844.0	846.1
25°	806.0	812.2	815.2	826.6	827.6
27.5°	782.3	791.6	795.7	806.0	807.0
30°	758.7	766.9	774.1	785.4	787.5
32.5°	733.0	743.3	751.5	764.9	766.9
35°	705.2	717.6	727.9	742.3	745.3
37.5°	677.5	691.9	704.2	718.6	721.7
40°	650.8	664.1	678.5	693.9	698.0
42.5°	619.9	635.3	652.8	670.3	673.4
45°	588.0	607.6	627.1	644.6	649.7
47.5°	558.2	577.8	600.4	617.9	624.0
50°	525.3	547.9	570.6	591.1	597.3
52.5°	492.4	515.1	541.8	562.3	568.5
55°	460.6	482.2	513.0	533.6	539.7
57.5°	424.6	451.3	481.1	505.8	510.9
60°	389.6	416.4	450.3	473.9	482.2
62.5°	355.7	385.5	419.4	443.1	451.3
65°	318.7	351.6	386.5	412.2	420.5
67.5°	283.7	318.7	355.7	381.4	389.6
70°	247.8	282.7	321.8	349.5	356.7
72.5°	212.8	248.8	290.9	317.7	325.9
75°	176.8	214.9	258.0	286.8	296.1
77.5°	142.9	183.0	228.2	257.0	267.3
80°	112.1	153.2	198.4	229.3	237.5
82.5°	81.2	124.4	169.6	201.5	210.7
85°	54.5	97.7	143.9	174.8	185.0
87.5°	33.9	76.1	121.3	151.1	160.4
90°	20.1	75.1	129.2	166.5	177.2
92.5°	47.8	100.1	150.5	183.0	192.5
95°	88.3	133.4	184.2	215.8	225.0
97.5°	132.1	171.8	224.0	255.7	265.0
100°	186.0	217.6	269.0	299.3	306.5
102.5°	243.3	267.2	316.3	346.7	356.2
105°	300.0	321.7	364.8	394.2	406.2
107.5°	361.1	379.7	417.0	447.7	453.6
110°	422.4	439.3	474.0	495.1	507.2

TEST NUMBER: P1032784

CATALOG NUMBER: S124DIW-B795D1340UB2750-4F0-XX-W2A-D1_5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	486.2	498.5	530.0	552.6	560.8
115°	550.1	559.3	589.7	611.1	617.0
117.5°	611.2	617.3	647.0	664.9	669.3
120°	671.3	679.4	705.4	719.8	730.5
122.5°	734.9	736.1	762.7	779.5	780.5
125°	796.3	795.3	819.7	836.7	840.4
127.5°	852.4	855.1	873.2	889.2	895.1
130°	911.3	914.0	930.4	946.4	947.6
132.5°	972.4	973.9	985.0	1000.0	1004.8
135°	1023.8	1031.3	1038.5	1052.4	1054.9
137.5°	1082.4	1085.1	1091.7	1103.4	1109.8
140°	1141.1	1142.5	1143.6	1155.6	1159.6
142.5°	1193.6	1196.1	1193.9	1205.2	1209.3
145°	1242.3	1246.3	1247.5	1252.5	1252.8
147.5°	1292.2	1297.4	1296.2	1295.9	1298.8
150°	1337.1	1341.1	1341.1	1341.1	1339.8
152.5°	1378.5	1381.0	1382.2	1386.0	1382.2
155°	1422.2	1422.2	1420.9	1425.9	1420.9
157.5°	1459.6	1457.1	1457.1	1460.8	1457.1
160°	1492.0	1490.8	1489.5	1493.3	1487.0
162.5°	1522.0	1518.2	1517.0	1524.5	1518.2
165°	1548.2	1544.4	1541.9	1549.4	1544.4
167.5°	1569.4	1564.4	1564.4	1571.9	1564.4
170°	1586.8	1580.6	1581.8	1589.3	1580.6
172.5°	1599.3	1594.3	1594.3	1603.0	1594.3
175°	1610.5	1604.3	1603.0	1611.8	1603.0
177.5°	1615.5	1609.3	1609.3	1618.0	1608.0
180°	1613.0	1613.0	1613.0	1613.0	1613.0

(END OF REPORT)