

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: P1032063

Luminaire Tested: S123RDIW-B1000D755UB27-4F0-XX-W2A-F1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1032063
REPORT IS A COMBINATION OF REPORTS P993899 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123RDIW-B1000D755UB27-4F0-XX-W2A-F1
Description: Define 3 Regressed Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473}
{m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

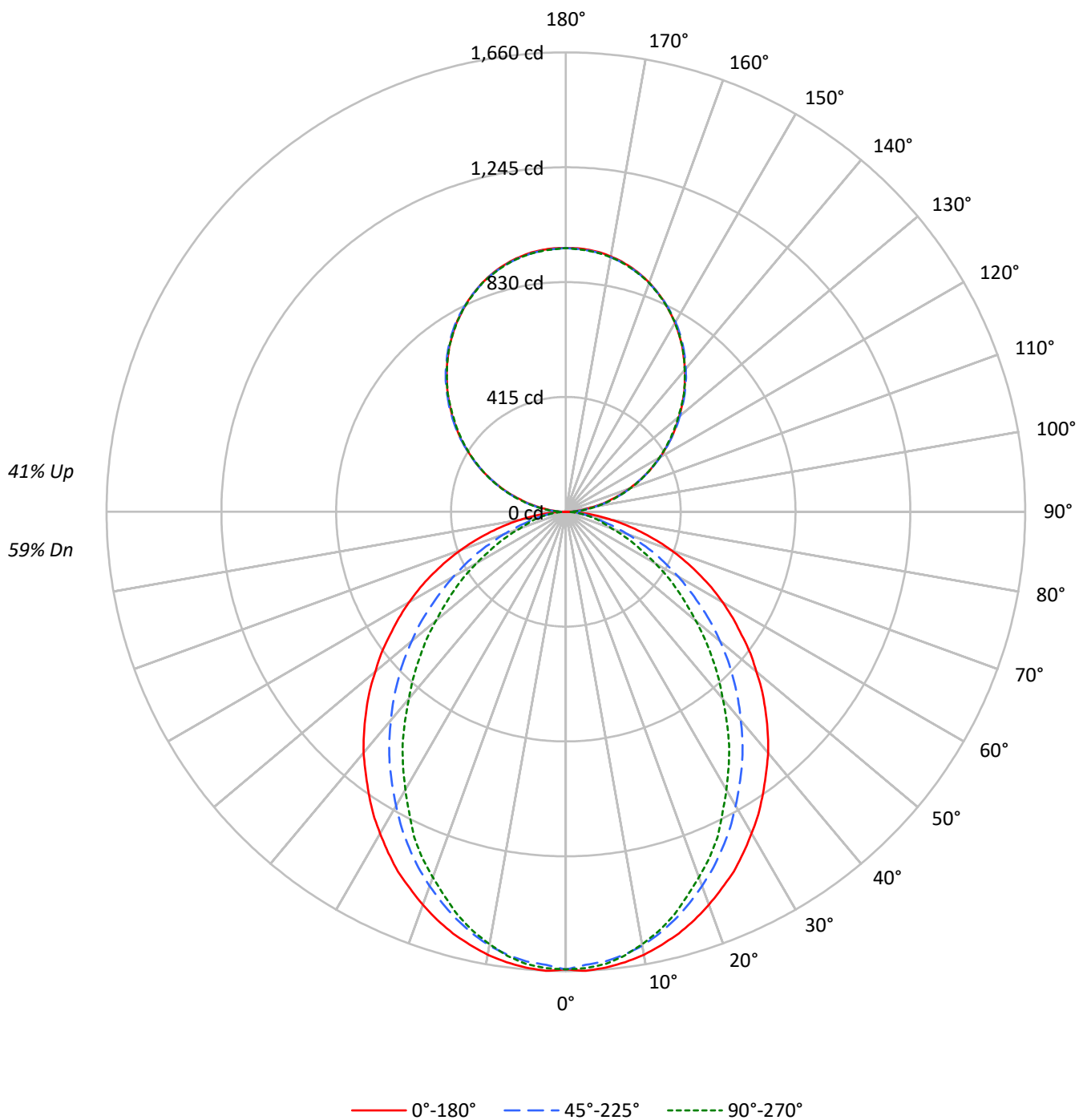
Lumens per Lamp: N/A
Luminaire Lumens: 6378.0 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 70
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: P1032063

CATALOG NUMBER: S123RDIW-B1000D755UB27-4F0-XX-W2A-F1

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	76	76	76	64	64	64
1	100	96	92	89	93	90	86	83	78	75	73	67	65	64	57	56	55
2	91	84	78	73	85	79	74	69	69	65	61	59	56	54	51	49	47
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40
4	77	66	58	52	71	62	55	50	54	49	45	47	43	40	41	38	35
5	71	59	51	45	66	56	48	43	49	43	39	43	38	35	37	33	31
6	65	53	45	39	61	50	43	38	44	38	34	39	34	31	34	30	27
7	60	48	40	35	56	45	38	33	40	34	30	35	31	27	31	27	24
8	56	44	36	31	52	41	34	30	37	31	27	32	28	24	28	25	22
9	52	40	33	28	49	38	31	26	34	28	24	30	25	22	26	23	20
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	24	21	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17800	17800	17800
5°	17829	17170	17124
10°	17689	16525	16199
15°	17460	15727	15186
20°	17158	14859	14055
25°	16848	13958	12981
30°	16449	12998	11714
35°	16039	12056	10560
40°	15652	11032	9284
45°	15159	10031	8138
50°	14612	8963	6950
55°	14046	7819	5863
60°	13505	6646	4759
65°	12807	5442	3714
70°	11927	4115	2654
75°	10662	2788	2104
80°	9099	1937	1475
85°	6829	1047	774

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 15159 cd/sqm

TEST NUMBER: P1032063

CATALOG NUMBER: S123RDIW-B1000D755UB27-4F0-XX-W2A-F1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	2.4
10°-20°	432.5	6.8
20°-30°	622.7	9.8
30°-40°	701.2	11.0
40°-50°	670.7	10.5
50°-60°	549.1	8.6
60°-70°	370.2	5.8
70°-80°	185.7	2.9
80°-90°	50.6	0.8
90°-100°	61.3	1.0
100°-110°	185.6	2.9
110°-120°	316.0	5.0
120°-130°	415.8	6.5
130°-140°	467.3	7.3
140°-150°	459.4	7.2
150°-160°	386.8	6.1
160°-170°	257.5	4.0
170°-180°	90.2	1.4
0°-30°	1210.6	19.0
0°-40°	1911.8	30.0
0°-60°	3131.6	49.1
0°-90°	3738.0	58.6
90°-120°	563.0	8.8
90°-150°	1905.5	29.9
90°-180°	2640.0	41.4
0°-180°	6378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1654	1654	1654	1654	1654	
5°	1654	1647	1631	1643	1640	157
15°	1577	1562	1525	1518	1509	444
25°	1435	1402	1340	1312	1297	660
35°	1242	1194	1110	1053	1029	777
45°	1021	960	857	781	748	788
55°	775	710	596	518	491	695
65°	530	456	351	286	271	524
75°	280	216	142	129	126	299
85°	71	42	38	35	35	78
90°	1	8	18	21	22	8
95°	44	49	55	58	58	49
105°	168	170	177	177	178	180
115°	318	320	319	320	319	315
125°	466	468	466	463	460	415
135°	604	608	608	605	603	465
145°	733	734	736	736	733	458
155°	839	839	840	843	838	386
165°	914	912	912	916	911	258
175°	950	948	948	952	947	90
180°	953	953	953	953	953	

TEST NUMBER: P1032063

CATALOG NUMBER: S123RDIW-B1000D755UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1653.7	1653.7	1653.7	1653.7	1653.7
2.5°	1660.4	1655.0	1638.9	1653.7	1651.0
5°	1653.7	1647.0	1630.9	1643.0	1640.3
7.5°	1641.6	1634.9	1614.8	1622.9	1618.8
10°	1625.5	1616.1	1592.0	1593.3	1586.6
12.5°	1602.7	1592.0	1561.2	1559.8	1551.8
15°	1577.3	1562.5	1524.9	1518.2	1508.8
17.5°	1546.4	1530.3	1483.4	1470.0	1456.5
20°	1511.5	1490.1	1439.1	1421.7	1405.6
22.5°	1472.6	1447.2	1392.2	1369.4	1354.6
25°	1435.1	1401.6	1339.9	1311.7	1296.9
27.5°	1389.5	1353.3	1286.2	1248.7	1225.9
30°	1342.5	1302.3	1227.2	1181.6	1160.1
32.5°	1295.6	1248.7	1168.2	1117.2	1094.4
35°	1242.0	1193.7	1110.5	1052.8	1028.7
37.5°	1188.3	1136.0	1048.8	984.4	954.9
40°	1137.3	1078.3	983.1	913.4	882.5
42.5°	1079.7	1020.7	921.4	843.6	816.8
45°	1020.7	960.3	857.0	780.6	748.4
47.5°	963.0	895.9	794.0	710.8	682.7
50°	898.6	835.6	726.9	643.8	612.9
52.5°	840.9	771.2	663.9	576.7	549.9
55°	775.2	709.5	595.5	517.7	490.9
57.5°	716.2	645.1	529.8	456.0	433.2
60°	654.5	580.7	469.4	397.0	374.2
62.5°	592.8	519.0	407.7	340.7	316.5
65°	529.8	456.0	351.4	285.7	270.9
67.5°	466.7	391.6	289.7	240.1	224.0
70°	405.0	332.6	238.7	191.8	177.0
72.5°	343.3	272.3	189.1	152.9	148.9
75°	280.3	215.9	142.2	128.8	126.1
77.5°	222.6	163.6	111.3	103.3	100.6
80°	167.6	112.7	84.5	80.5	77.8
82.5°	115.3	69.7	60.4	56.3	56.3
85°	71.1	41.6	37.6	34.9	34.9
87.5°	32.2	17.4	17.4	16.1	14.8
90°	0.7	8.2	18.0	21.0	22.5
92.5°	22.5	26.9	31.4	33.7	32.2
95°	44.2	49.4	55.4	58.4	58.4
97.5°	72.6	76.3	80.8	84.6	83.8
100°	101.8	106.3	110.0	112.3	113.8
102.5°	135.5	137.7	143.0	145.2	144.5
105°	168.4	169.9	176.6	176.6	178.1
107.5°	207.3	208.1	211.1	213.3	212.6
110°	243.2	244.7	246.2	249.2	247.7

TEST NUMBER: P1032063

CATALOG NUMBER: S123RDIW-B1000D755UB27-4F0-XX-W2A-F1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	280.7	281.4	281.4	285.2	285.2
115°	318.1	320.3	318.8	319.6	318.8
117.5°	356.3	357.0	355.5	355.5	353.3
120°	391.4	395.9	392.2	391.4	389.9
122.5°	428.1	431.1	429.6	427.4	425.1
125°	465.5	467.8	466.3	463.3	460.3
127.5°	500.0	504.5	503.0	498.5	495.5
130°	534.4	540.4	538.1	535.1	529.9
132.5°	568.8	574.8	573.3	569.6	565.8
135°	604.0	608.5	607.7	604.8	603.3
137.5°	636.2	639.9	642.2	638.4	636.2
140°	669.9	673.6	674.4	673.6	668.4
142.5°	700.6	704.3	705.8	705.0	701.3
145°	732.7	734.2	736.5	735.7	732.7
147.5°	760.4	763.4	765.7	765.7	761.2
150°	789.6	791.1	792.6	792.6	788.1
152.5°	813.6	815.8	816.6	818.1	814.3
155°	839.0	839.0	839.8	842.8	837.5
157.5°	860.7	860.0	860.7	863.7	859.2
160°	880.9	879.4	879.4	883.2	880.2
162.5°	898.9	896.6	897.4	901.1	895.9
165°	913.9	911.6	911.6	916.1	910.9
167.5°	926.6	923.6	924.3	928.8	924.3
170°	937.1	934.1	934.1	939.3	934.1
172.5°	945.3	942.3	942.3	946.8	941.6
175°	950.5	947.5	947.5	952.0	946.8
177.5°	953.5	950.5	950.5	955.0	949.8
180°	952.8	952.8	952.8	952.8	952.8

(END OF REPORT)