

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: P1031382

Luminaire Tested: S123DIW-B1000D755UB27-4F0-XX-W2A-F

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1031382
REPORT IS A COMBINATION OF REPORTS P990789 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123DIW-B1000D755UB27-4F0-XX-W2A-F
Description: Define 3 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

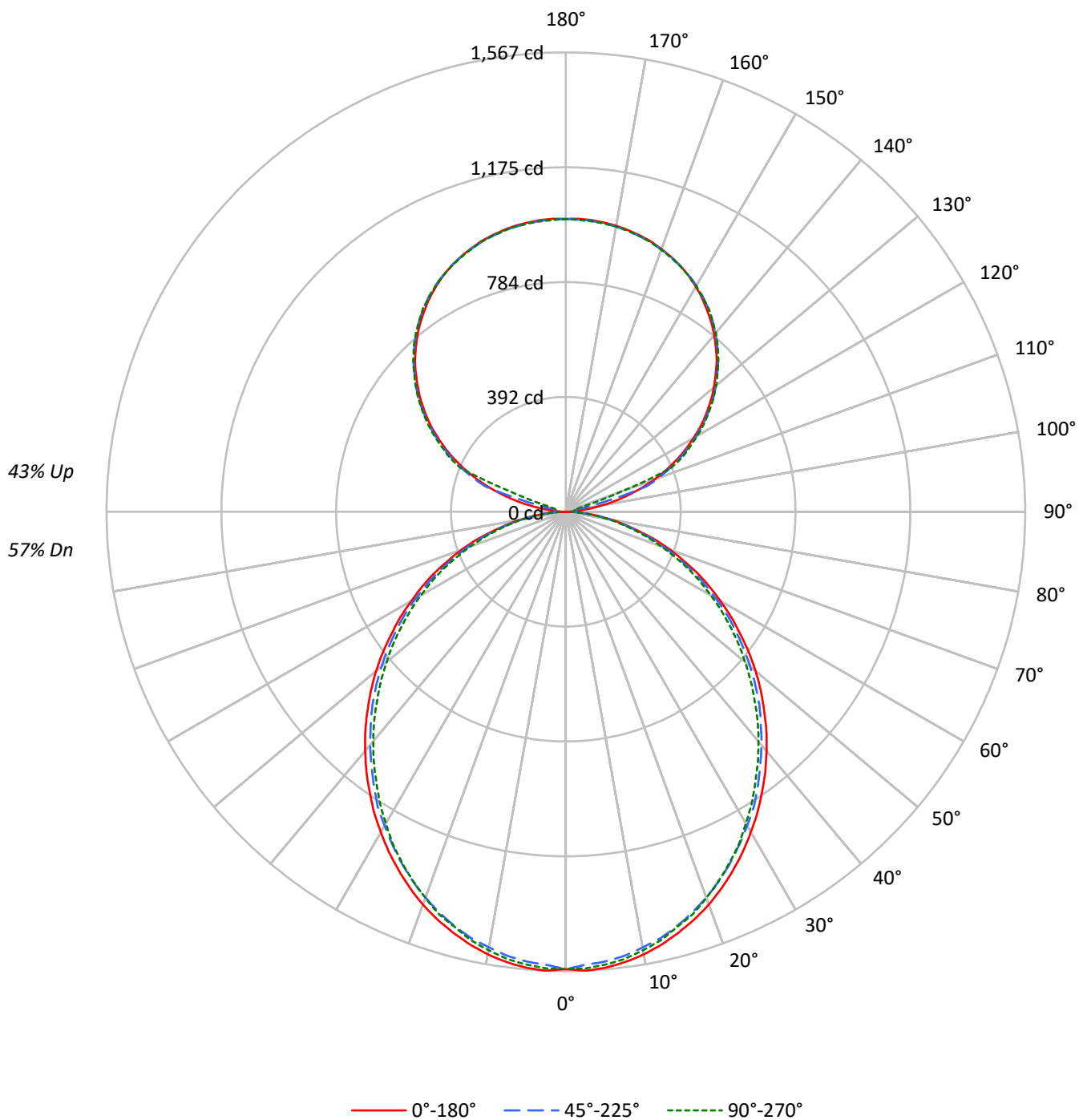
Lumens per Lamp: N/A
Luminaire Lumens: 7107.0 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 0.25' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	101	101	101	101	87	87	87	74	74	74	63	63	63
1	99	95	91	87	92	89	85	82	77	74	72	65	64	62	55	54	53
2	90	83	77	71	84	77	72	67	67	63	59	57	54	52	49	46	44
3	82	73	65	59	76	68	61	56	59	54	50	51	47	44	43	40	38
4	75	64	56	50	70	60	53	48	53	47	42	45	41	37	38	35	33
5	69	57	49	43	64	54	46	41	47	41	37	41	36	32	35	31	28
6	64	52	43	37	59	48	41	36	42	36	32	37	32	28	31	28	25
7	59	47	39	33	55	44	36	31	38	33	28	33	29	25	29	25	22
8	55	42	34	29	51	40	33	28	35	29	25	31	26	22	26	23	20
9	51	39	31	26	48	36	30	25	32	26	22	28	24	20	24	21	18
10	48	36	28	23	44	34	27	22	30	24	20	26	22	18	23	19	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16792	16792	16792
5°	16833	16212	16188
10°	16684	15663	15503
15°	16451	15092	14756
20°	16186	14460	14016
25°	15842	13791	13225
30°	15465	13098	12392
35°	15071	12392	11566
40°	14657	11650	10753
45°	14204	10928	9903
50°	13742	10122	9050
55°	13149	9282	8186
60°	12537	8356	7267
65°	11966	7354	6308
70°	11140	6244	5189
75°	9951	4944	4027
80°	8594	3475	2849
85°	6705	1869	1427

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 14204 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.1	2.1
10°-20°	415.3	5.8
20°-30°	613.3	8.6
30°-40°	716.3	10.1
40°-50°	720.1	10.1
50°-60°	632.6	8.9
60°-70°	471.1	6.6
70°-80°	268.1	3.8
80°-90°	78.2	1.1
90°-100°	35.2	0.5
100°-110°	170.3	2.4
110°-120°	417.3	5.9
120°-130°	529.8	7.5
130°-140°	565.9	8.0
140°-150°	529.2	7.4
150°-160°	426.9	6.0
160°-170°	275.5	3.9
170°-180°	94.9	1.3
0°-30°	1175.6	16.5
0°-40°	1891.9	26.6
0°-60°	3244.6	45.7
0°-90°	4062.0	57.2
90°-120°	622.8	8.8
90°-150°	2247.8	31.6
90°-180°	3045.0	42.8
0°-180°	7107.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1560	1560	1560	1560	1560	
5°	1561	1555	1540	1553	1551	148
15°	1486	1481	1463	1474	1466	419
25°	1349	1341	1324	1325	1321	622
35°	1167	1159	1142	1134	1127	730
45°	956	951	934	918	911	738
55°	726	724	707	692	685	650
65°	495	488	475	464	460	488
75°	262	256	252	246	241	279
85°	70	67	67	64	64	75
90°	1	8	18	21	22	7
95°	45	15	23	28	28	54
105°	221	229	162	31	33	234
115°	415	419	426	433	436	410
125°	585	591	594	595	597	522
135°	728	732	735	738	735	560
145°	840	845	847	848	848	526
155°	925	924	925	928	924	426
165°	976	974	973	979	974	276
175°	999	995	996	1001	995	95
180°	999	999	999	999	999	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1560.0	1560.0	1560.0	1560.0	1560.0
2.5°	1566.7	1561.3	1546.6	1560.0	1558.7
5°	1561.3	1554.6	1539.9	1553.3	1550.6
7.5°	1549.3	1542.6	1527.8	1539.9	1538.5
10°	1533.2	1526.5	1509.0	1521.1	1518.4
12.5°	1511.7	1506.3	1490.3	1498.3	1497.0
15°	1486.2	1480.9	1463.4	1474.2	1466.1
17.5°	1458.1	1451.4	1433.9	1442.0	1439.3
20°	1425.9	1417.8	1400.4	1405.7	1401.7
22.5°	1389.7	1381.6	1364.2	1368.2	1362.8
25°	1349.4	1341.4	1323.9	1325.3	1321.2
27.5°	1307.8	1299.8	1281.0	1282.3	1278.3
30°	1262.2	1255.5	1236.7	1236.7	1227.3
32.5°	1216.6	1207.2	1193.8	1184.4	1180.4
35°	1167.0	1158.9	1141.5	1133.5	1126.7
37.5°	1117.4	1106.6	1089.2	1079.8	1075.8
40°	1065.0	1057.0	1038.2	1027.5	1022.1
42.5°	1012.7	1003.3	984.6	973.8	968.5
45°	956.4	951.0	933.6	917.5	910.8
47.5°	901.4	893.3	877.3	861.2	855.8
50°	845.1	838.4	820.9	806.2	798.1
52.5°	786.0	782.0	763.2	751.2	743.1
55°	725.7	724.3	706.9	692.1	685.4
57.5°	669.3	664.0	650.6	637.1	629.1
60°	607.6	606.3	590.2	578.1	571.4
62.5°	552.6	548.6	532.5	520.4	516.4
65°	495.0	488.3	474.8	464.1	460.1
67.5°	433.3	427.9	417.2	407.8	402.4
70°	378.3	370.2	362.2	352.8	346.1
72.5°	320.6	315.2	305.8	297.8	295.1
75°	261.6	256.2	252.2	245.5	241.4
77.5°	209.3	206.6	201.2	195.8	195.8
80°	158.3	154.3	151.6	150.2	150.2
82.5°	108.7	108.7	108.7	106.0	104.6
85°	69.8	67.1	67.1	64.4	64.4
87.5°	34.9	30.9	29.5	28.2	28.2
90°	0.7	8.2	17.8	20.8	22.3
92.5°	17.1	12.6	19.3	24.5	25.2
95°	45.3	14.8	23.0	28.2	28.2
97.5°	82.4	61.6	23.7	29.7	30.4
100°	125.4	140.3	24.5	30.4	31.2
102.5°	174.4	184.0	54.9	30.4	31.9
105°	221.1	229.3	162.5	31.2	32.7
107.5°	270.9	277.5	288.7	174.4	77.2
110°	320.6	326.5	334.7	310.2	204.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	368.1	373.3	381.4	388.1	386.6
115°	414.8	419.3	425.9	433.4	436.3
117.5°	460.8	466.0	469.7	475.7	476.4
120°	503.1	509.8	512.0	518.0	518.0
122.5°	546.2	551.4	554.3	558.0	558.8
125°	584.8	590.7	593.7	595.1	596.6
127.5°	623.3	629.3	633.0	635.2	633.7
130°	659.0	664.9	667.9	670.8	669.3
132.5°	693.1	699.0	701.3	704.2	702.0
135°	728.0	732.4	735.4	737.6	735.4
137.5°	757.7	763.6	765.1	768.8	767.3
140°	787.3	791.8	794.0	797.0	795.5
142.5°	814.8	819.2	821.5	823.7	821.5
145°	840.0	845.2	846.7	848.2	848.2
147.5°	864.5	868.2	869.7	871.2	867.5
150°	886.8	889.0	890.5	892.0	889.7
152.5°	906.8	907.6	908.3	911.3	907.6
155°	925.4	923.9	924.6	928.3	923.9
157.5°	940.2	940.2	939.5	943.9	938.0
160°	953.6	952.8	952.1	956.5	951.3
162.5°	966.2	963.9	963.2	968.4	963.9
165°	975.8	973.6	972.9	978.8	973.6
167.5°	984.0	981.0	981.0	987.0	981.0
170°	990.7	987.7	987.7	993.6	987.7
172.5°	995.1	991.4	992.1	998.1	991.4
175°	998.8	995.1	995.9	1001.1	995.1
177.5°	1000.3	996.6	997.3	1003.3	995.9
180°	998.8	998.8	998.8	998.8	998.8

(END OF REPORT)