

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: P1034455

Luminaire Tested: S125DIW-B1270D770UB2750-4F0-XX-W2A-D_2700K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034455
REPORT IS A COMBINATION OF REPORTS P1003331 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1270D770UB2750-4F0-XX-W2A-D_2700K
Description: Define 5 Direct/Indirect Wall Mount with 2700K BioUP LEDs {m-DER=0.473} {m-EER=0.52}
Light Source: -
Ballast/Driver: -

Summary

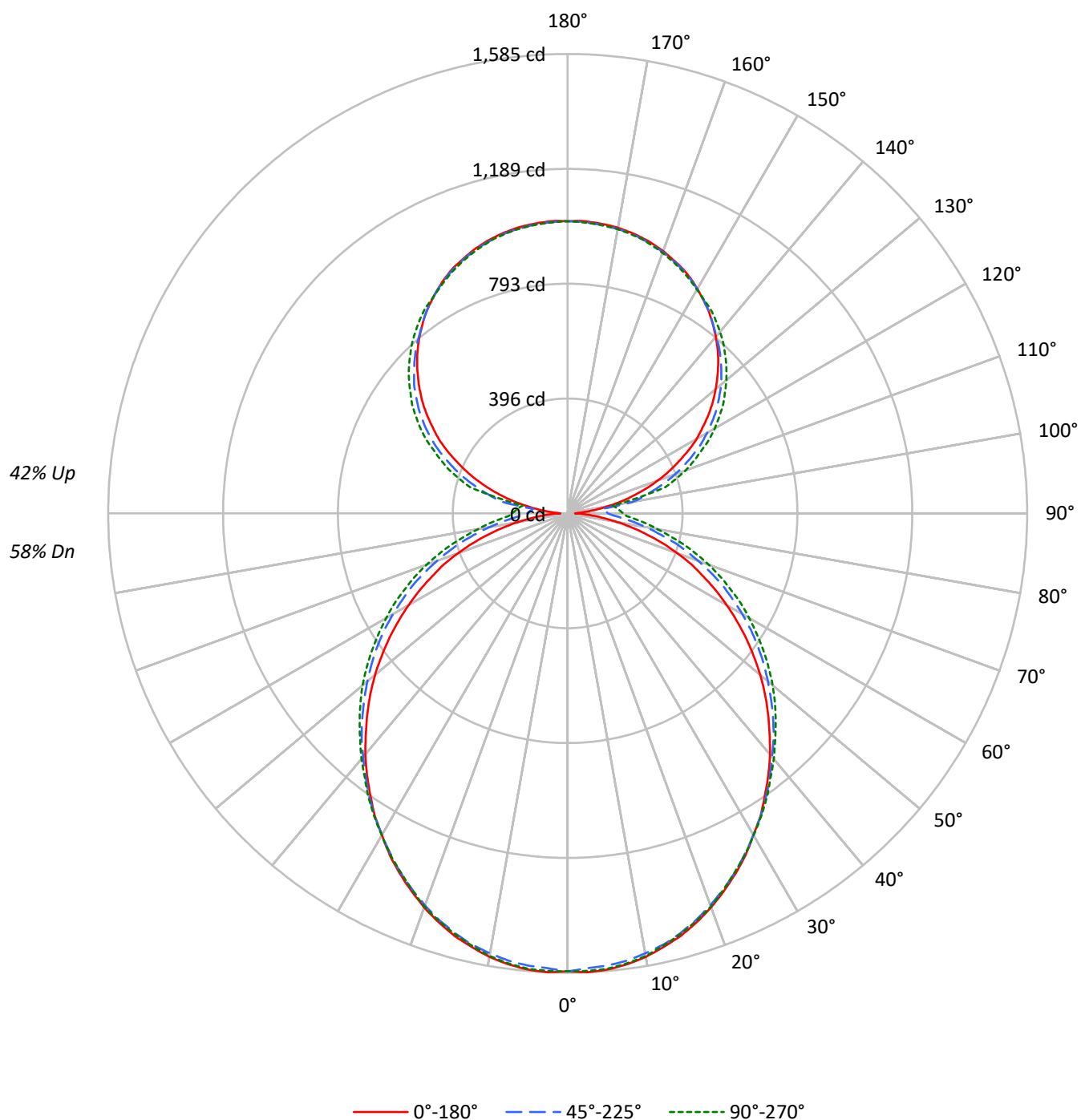
Lumens per Lamp: N/A
Luminaire Lumens: 7993.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 84.5
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: P1034455

CATALOG NUMBER: S125DIW-B1270D770UB2750-4F0-XX-W2A-D_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1034455

CATALOG NUMBER: S125DIW-B1270D770UB2750-4F0-XX-W2A-D_2700K

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	88	88	88	75	75	75	63	63	63
1	99	94	90	86	92	87	84	80	76	73	70	65	62	61	54	53	52
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43
3	81	71	64	57	75	67	60	54	58	52	48	49	45	42	42	39	36
4	74	63	55	48	69	59	51	46	51	45	41	44	39	36	37	34	31
5	68	56	48	41	63	52	45	39	46	40	35	39	35	31	33	30	27
6	63	50	42	36	58	47	40	34	41	35	30	35	31	27	30	26	23
7	58	45	37	31	54	43	35	30	37	31	27	32	27	24	28	24	21
8	54	41	33	28	50	39	31	26	34	28	24	29	25	21	25	21	19
9	50	38	30	25	47	35	28	24	31	25	21	27	22	19	23	20	17
10	47	35	27	22	44	33	26	21	29	23	19	25	20	17	22	18	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10124	10124	10124
5°	10140	9912	9936
10°	10065	9710	9682
15°	9942	9475	9370
20°	9776	9191	9059
25°	9581	8889	8684
30°	9344	8559	8343
35°	9122	8255	8028
40°	8897	7935	7711
45°	8641	7657	7426
50°	8397	7356	7169
55°	8103	7068	6870
60°	7782	6741	6564
65°	7445	6396	6219
70°	7061	5934	5859
75°	6453	5478	5421
80°	5658	4923	4937
85°	4871	4479	4682

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8641 cd/sqm

TEST NUMBER: P1034455

CATALOG NUMBER: S125DIW-B1270D770UB2750-4F0-XX-W2A-D_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.5	1.9
10°-20°	424.5	5.3
20°-30°	631.2	7.9
30°-40°	747.5	9.4
40°-50°	772.8	9.7
50°-60°	711.9	8.9
60°-70°	575.5	7.2
70°-80°	385.1	4.8
80°-90°	200.5	2.5
90°-100°	146.3	1.8
100°-110°	310.1	3.9
110°-120°	465.0	5.8
120°-130°	557.2	7.0
130°-140°	579.3	7.2
140°-150°	533.5	6.7
150°-160°	429.4	5.4
160°-170°	277.7	3.5
170°-180°	95.8	1.2
0°-30°	1205.2	15.1
0°-40°	1952.7	24.4
0°-60°	3437.5	43.0
0°-90°	4598.7	57.5
90°-120°	921.5	11.5
90°-150°	2591.5	32.4
90°-180°	3394.0	42.5
0°-180°	7993.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1580	1580	1580	1580	1580	
5°	1580	1577	1566	1579	1577	150
15°	1509	1510	1500	1509	1503	425
25°	1371	1376	1366	1373	1365	631
35°	1187	1198	1193	1198	1198	743
45°	978	995	1002	1013	1015	754
55°	751	776	801	818	824	672
65°	517	553	590	614	620	513
75°	285	325	375	406	414	302
85°	85	136	190	225	237	89
90°	26	81	139	178	191	19
95°	63	101	125	163	174	68
105°	234	261	308	339	349	248
115°	422	436	477	502	507	418
125°	593	596	627	649	655	529
135°	735	738	747	766	769	566
145°	850	850	850	858	860	531
155°	934	930	931	933	927	430
165°	986	981	982	986	980	278
175°	1008	1004	1004	1010	1004	96
180°	1008	1008	1008	1008	1008	

TEST NUMBER: P1034455

CATALOG NUMBER: S125DIW-B1270D770UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1580.1	1580.1	1580.1	1580.1	1580.1
2.5°	1584.8	1581.7	1570.8	1581.7	1580.1
5°	1580.1	1577.0	1566.2	1578.6	1577.0
7.5°	1569.3	1567.7	1556.9	1567.7	1566.2
10°	1553.8	1553.8	1541.4	1552.3	1550.7
12.5°	1532.1	1533.7	1524.4	1532.1	1527.5
15°	1508.9	1510.4	1499.6	1508.9	1502.7
17.5°	1479.4	1482.5	1471.7	1479.4	1474.8
20°	1446.9	1450.0	1439.2	1443.8	1443.8
22.5°	1409.7	1415.9	1403.5	1409.7	1405.1
25°	1371.0	1375.7	1366.4	1372.6	1364.8
27.5°	1329.2	1335.4	1324.5	1329.2	1326.1
30°	1281.2	1290.4	1281.2	1284.3	1282.7
32.5°	1237.8	1245.5	1239.3	1242.4	1240.9
35°	1186.7	1197.5	1192.9	1197.5	1197.5
37.5°	1137.1	1146.4	1144.8	1151.0	1149.5
40°	1086.0	1098.4	1096.8	1103.0	1106.1
42.5°	1030.2	1047.2	1051.9	1059.6	1059.6
45°	977.5	994.6	1002.3	1013.1	1014.7
47.5°	923.3	938.8	951.2	966.7	969.8
50°	867.5	884.6	901.6	918.7	923.3
52.5°	808.7	830.3	852.0	870.6	873.7
55°	751.3	776.1	800.9	818.0	824.2
57.5°	692.5	721.9	749.8	768.4	773.0
60°	633.6	664.6	695.6	718.8	723.5
62.5°	576.3	607.3	641.4	667.7	673.9
65°	517.4	553.0	590.2	613.5	619.7
67.5°	463.2	497.3	534.5	562.3	570.1
70°	402.8	438.4	478.7	508.1	517.4
72.5°	343.9	381.1	426.0	458.6	464.7
75°	285.0	325.3	374.9	405.9	413.6
77.5°	227.7	274.2	320.7	354.8	361.0
80°	175.1	221.5	274.2	308.3	314.5
82.5°	127.0	176.6	230.8	263.4	275.8
85°	85.2	136.3	190.5	224.6	237.0
87.5°	54.2	103.8	156.5	192.1	202.9
90°	25.5	81.1	139.0	178.4	191.4
92.5°	35.9	74.1	132.8	170.6	182.2
95°	62.7	100.8	125.1	162.9	173.7
97.5°	98.6	140.2	120.4	154.3	166.0
100°	141.8	176.6	229.1	150.4	156.7
102.5°	185.9	218.3	267.8	300.3	246.8
105°	233.6	261.4	307.9	338.9	348.9
107.5°	282.9	304.6	351.0	382.7	389.1
110°	330.6	349.2	394.1	421.3	432.9



TEST NUMBER: P1034455

CATALOG NUMBER: S125DIW-B1270D770UB2750-4F0-XX-W2A-D_2700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	377.0	393.2	435.7	460.7	470.0
115°	421.8	436.3	477.4	502.3	507.1
117.5°	468.8	476.6	518.2	540.2	549.5
120°	513.6	517.5	555.4	580.3	585.9
122.5°	551.7	556.9	591.8	615.1	619.9
125°	592.8	596.4	627.4	649.2	654.8
127.5°	630.8	633.0	658.6	680.4	683.7
130°	666.7	668.9	691.4	710.8	714.8
132.5°	701.0	705.5	718.8	740.5	742.9
135°	734.7	737.5	747.0	765.6	768.9
137.5°	766.0	768.9	773.6	792.2	794.7
140°	795.1	796.6	797.4	815.9	817.6
142.5°	822.7	822.0	823.5	837.4	839.1
145°	849.6	849.6	849.6	858.1	859.8
147.5°	872.0	872.0	872.8	876.6	874.5
150°	894.5	893.0	894.5	896.0	891.5
152.5°	916.1	912.4	913.9	915.4	910.2
155°	934.1	929.6	931.1	933.3	927.3
157.5°	948.3	946.0	946.0	948.3	942.3
160°	963.2	958.7	959.5	962.5	956.5
162.5°	975.2	970.7	971.4	975.9	969.2
165°	985.6	981.1	981.9	986.4	980.4
167.5°	993.8	989.4	990.1	995.3	988.6
170°	1000.6	995.3	996.1	1002.1	995.3
172.5°	1005.1	999.8	1001.3	1006.6	999.8
175°	1008.0	1003.6	1004.3	1010.3	1003.6
177.5°	1010.3	1005.8	1006.6	1011.8	1005.8
180°	1008.0	1008.0	1008.0	1008.0	1008.0

(END OF REPORT)