

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: P1034381

Luminaire Tested: S125DIW-B1090D770UB2750-4F0-XX-W2A-D_3000K

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1034381
REPORT IS A COMBINATION OF REPORTS P1003002 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D770UB2750-4F0-XX-W2A-D_3000K
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

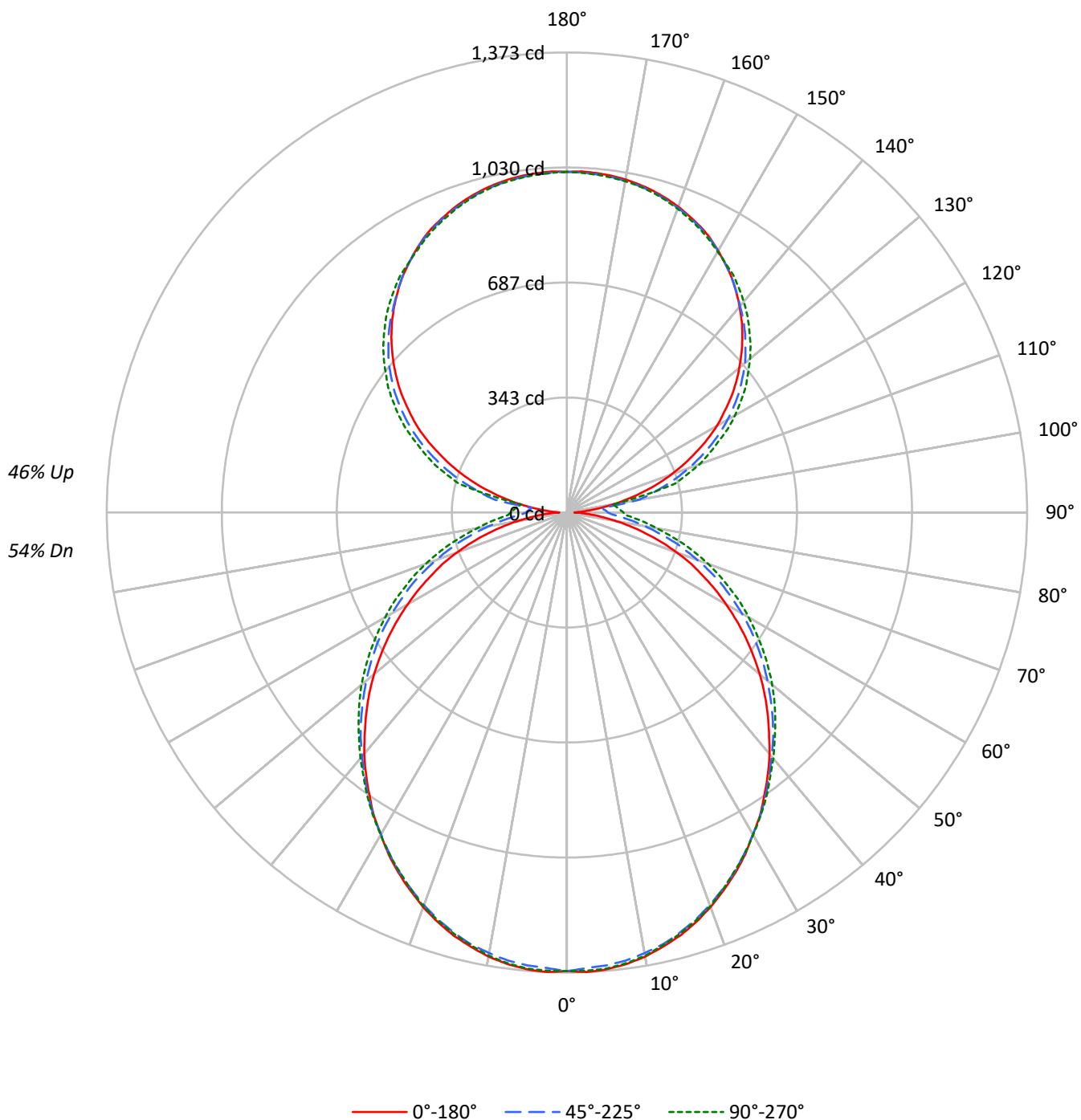
Lumens per Lamp: N/A
Luminaire Lumens: 7365.0 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 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: P1034381

CATALOG NUMBER: S125DIW-B1090D770UB2750-4F0-XX-W2A-D_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1034381

CATALOG NUMBER: S125DIW-B1090D770UB2750-4F0-XX-W2A-D_3000K

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	108	108	108	108	100	100	100	100	86	86	86	72	72	72	60	60	60
1	98	93	89	85	91	86	83	79	74	71	69	62	60	59	52	50	49
2	89	81	74	69	82	75	69	65	64	60	56	54	51	48	45	43	41
3	81	71	63	57	75	66	59	54	56	51	47	48	44	40	40	37	34
4	74	63	54	48	68	58	51	45	50	44	40	42	38	34	35	32	29
5	68	56	47	41	62	52	44	39	45	39	34	38	33	30	32	28	25
6	62	50	42	36	58	47	39	34	40	34	30	34	30	26	29	25	22
7	58	45	37	31	53	42	35	29	36	30	26	31	26	23	26	23	20
8	53	41	33	27	49	38	31	26	33	27	23	28	24	20	24	20	18
9	50	37	30	24	46	35	28	23	30	25	21	26	22	18	22	19	16
10	47	34	27	22	43	32	25	21	28	22	19	24	20	17	21	17	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8769	8769	8769
5°	8784	8585	8606
10°	8718	8411	8387
15°	8612	8207	8116
20°	8468	7961	7847
25°	8299	7699	7522
30°	8093	7414	7227
35°	7902	7150	6954
40°	7705	6873	6679
45°	7485	6633	6432
50°	7273	6372	6210
55°	7019	6122	5951
60°	6741	5839	5686
65°	6449	5541	5386
70°	6116	5140	5076
75°	5590	4744	4697
80°	4899	4264	4276
85°	4220	3880	4055

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7485 cd/sqm

TEST NUMBER: P1034381

CATALOG NUMBER: S125DIW-B1090D770UB2750-4F0-XX-W2A-D_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.8
10°-20°	367.7	5.0
20°-30°	546.7	7.4
30°-40°	647.5	8.8
40°-50°	669.4	9.1
50°-60°	616.7	8.4
60°-70°	498.5	6.8
70°-80°	333.6	4.5
80°-90°	173.9	2.4
90°-100°	131.6	1.8
100°-110°	301.1	4.1
110°-120°	461.2	6.3
120°-130°	557.6	7.6
130°-140°	582.4	7.9
140°-150°	537.8	7.3
150°-160°	433.1	5.9
160°-170°	280.1	3.8
170°-180°	96.6	1.3
0°-30°	1043.9	14.2
0°-40°	1691.5	23.0
0°-60°	2977.5	40.4
0°-90°	3983.5	54.1
90°-120°	893.9	12.1
90°-150°	2571.7	34.9
90°-180°	3382.0	45.9
0°-180°	7365.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1369	1369	1369	1369	1369	
5°	1369	1366	1357	1367	1366	130
15°	1307	1308	1299	1307	1302	368
25°	1188	1192	1184	1189	1182	547
35°	1028	1037	1033	1037	1037	643
45°	847	862	868	878	879	653
55°	651	672	694	708	714	582
65°	448	479	511	531	537	445
75°	247	282	325	352	358	262
85°	74	118	165	195	205	77
90°	22	71	122	157	168	17
95°	60	93	110	143	153	66
105°	234	258	298	325	334	248
115°	424	437	473	494	498	420
125°	597	601	628	646	651	533
135°	741	744	752	768	770	571
145°	857	857	857	864	865	536
155°	942	938	939	942	935	434
165°	994	990	990	995	989	281
175°	1017	1012	1013	1019	1012	97
180°	1017	1017	1017	1017	1017	

TEST NUMBER: P1034381

CATALOG NUMBER: S125DIW-B1090D770UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1368.7	1368.7	1368.7	1368.7	1368.7
2.5°	1372.7	1370.0	1360.7	1370.0	1368.7
5°	1368.7	1366.0	1356.6	1367.4	1366.0
7.5°	1359.3	1358.0	1348.6	1358.0	1356.6
10°	1345.9	1345.9	1335.2	1344.5	1343.2
12.5°	1327.1	1328.4	1320.4	1327.1	1323.1
15°	1307.0	1308.3	1298.9	1307.0	1301.6
17.5°	1281.5	1284.2	1274.8	1281.5	1277.5
20°	1253.3	1256.0	1246.6	1250.6	1250.6
22.5°	1221.1	1226.5	1215.7	1221.1	1217.1
25°	1187.6	1191.6	1183.5	1188.9	1182.2
27.5°	1151.3	1156.7	1147.3	1151.3	1148.6
30°	1109.7	1117.8	1109.7	1112.4	1111.1
32.5°	1072.2	1078.9	1073.5	1076.2	1074.8
35°	1027.9	1037.3	1033.2	1037.3	1037.3
37.5°	984.9	993.0	991.6	997.0	995.7
40°	940.6	951.4	950.0	955.4	958.1
42.5°	892.3	907.1	911.1	917.8	917.8
45°	846.7	861.5	868.2	877.6	878.9
47.5°	799.8	813.2	823.9	837.3	840.0
50°	751.4	766.2	781.0	795.7	799.8
52.5°	700.5	719.2	738.0	754.1	756.8
55°	650.8	672.3	693.7	708.5	713.9
57.5°	599.8	625.3	649.5	665.6	669.6
60°	548.8	575.7	602.5	622.6	626.7
62.5°	499.2	526.0	555.5	578.3	583.7
65°	448.2	479.0	511.3	531.4	536.7
67.5°	401.2	430.7	462.9	487.1	493.8
70°	348.9	379.7	414.6	440.1	448.2
72.5°	297.9	330.1	369.0	397.2	402.6
75°	246.9	281.8	324.7	351.6	358.3
77.5°	197.3	237.5	277.8	307.3	312.7
80°	151.6	191.9	237.5	267.0	272.4
82.5°	110.0	153.0	199.9	228.1	238.9
85°	73.8	118.1	165.0	194.6	205.3
87.5°	47.0	89.9	135.5	166.4	175.8
90°	22.3	71.2	122.1	156.7	168.4
92.5°	33.1	65.2	116.8	150.0	160.2
95°	60.4	93.0	110.1	143.3	152.7
97.5°	96.8	133.5	106.2	135.9	146.0
100°	140.7	171.0	217.1	132.9	137.9
102.5°	185.3	213.8	256.9	285.2	230.0
105°	233.7	258.1	298.4	325.2	333.9
107.5°	283.6	302.4	342.8	370.4	375.4
110°	332.0	348.1	387.2	410.5	420.6



TEST NUMBER: P1034381

CATALOG NUMBER: S125DIW-B1090D770UB2750-4F0-XX-W2A-D_3000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	378.7	393.1	430.1	451.2	459.0
115°	424.2	437.2	472.9	494.1	497.6
117.5°	471.8	478.5	515.1	533.4	541.3
120°	517.0	520.2	553.4	574.7	579.0
122.5°	555.6	560.7	591.0	611.0	614.5
125°	597.1	601.0	627.9	646.3	650.7
127.5°	635.7	638.1	660.2	678.8	680.8
130°	671.8	674.3	693.9	710.4	713.3
132.5°	706.7	711.2	722.4	741.2	742.8
135°	740.6	743.8	751.7	767.6	769.8
137.5°	772.3	775.4	779.3	795.4	797.0
140°	801.8	803.3	804.0	820.2	821.0
142.5°	829.7	829.1	830.7	842.8	843.5
145°	856.8	857.0	857.0	864.5	865.4
147.5°	879.6	879.6	880.4	883.9	881.3
150°	902.3	900.8	902.3	903.8	899.0
152.5°	924.1	920.3	921.9	923.4	918.1
155°	942.2	937.7	939.2	941.5	935.4
157.5°	956.5	954.3	954.3	956.5	950.5
160°	971.6	967.1	967.8	970.9	964.8
162.5°	983.7	979.1	979.9	984.4	977.6
165°	994.2	989.7	990.4	995.0	988.9
167.5°	1002.5	998.0	998.7	1004.0	997.2
170°	1009.3	1004.0	1004.8	1010.8	1004.0
172.5°	1013.8	1008.5	1010.0	1015.3	1008.5
175°	1016.8	1012.3	1013.1	1019.1	1012.3
177.5°	1019.1	1014.6	1015.3	1020.6	1014.6
180°	1016.8	1016.8	1016.8	1016.8	1016.8

(END OF REPORT)