

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: P1035065

Luminaire Tested: S125DIW-B1090D770UB30-4F0-XX-W2A-D1

Issue Date: 5/7/2025

Test Information

Test Method: LM-79-2019
Report Number: P1035065
REPORT IS A COMBINATION OF REPORTS P1003017 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125DIW-B1090D770UB30-4F0-XX-W2A-D1
Description: Define 5 Direct/Indirect Wall Mount with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

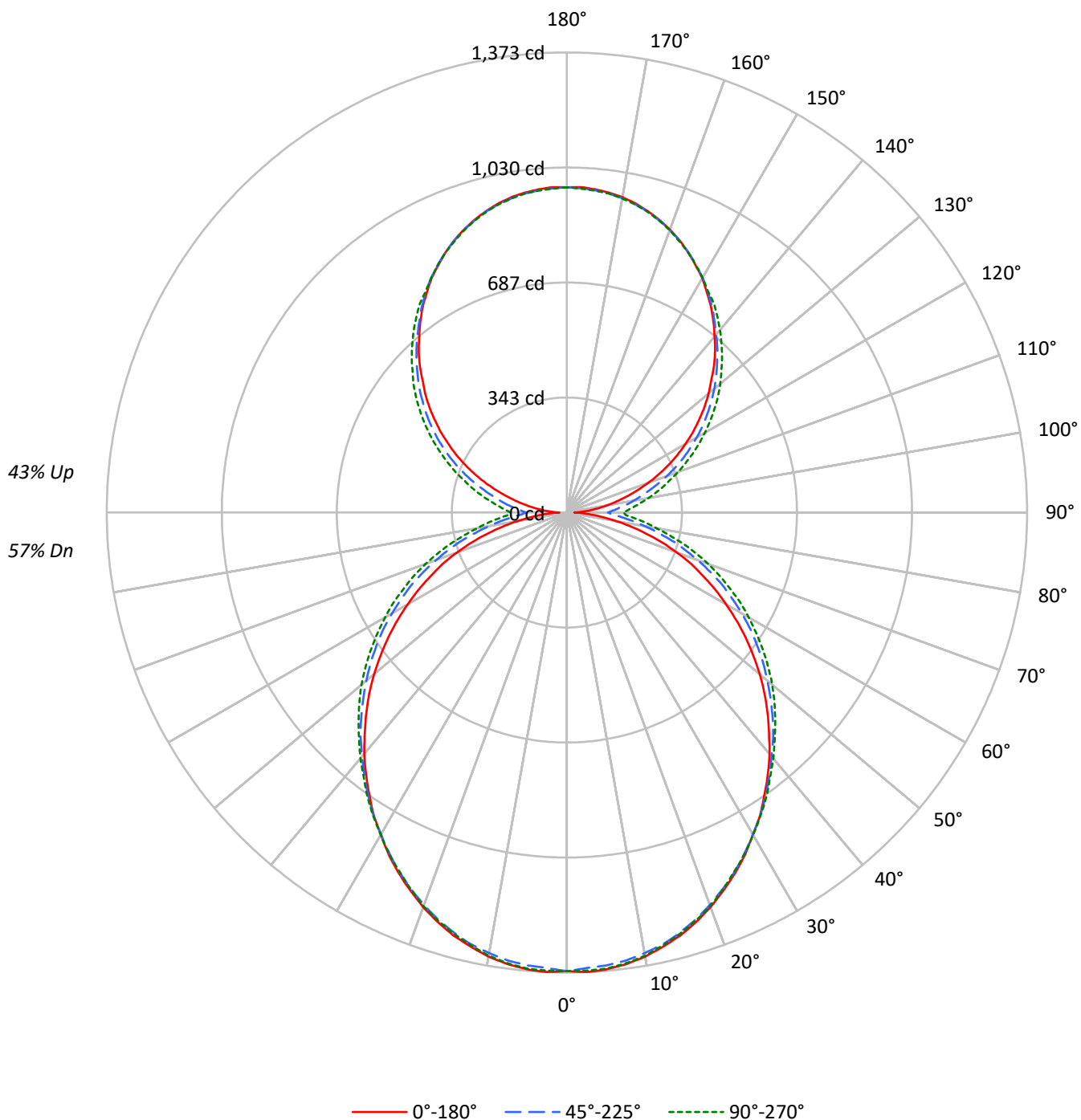
Lumens per Lamp: N/A
Luminaire Lumens: 6950.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

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

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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	75	75	75	63	63	63
1	99	94	90	86	92	87	84	80	75	73	70	64	62	60	54	53	51
2	89	81	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	34	31	33	30	27
6	63	50	42	36	58	47	39	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	27	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	19	17
10	47	34	27	22	44	32	26	21	29	23	19	25	20	17	22	18	15

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

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	129.5	1.9
10°-20°	367.7	5.3
20°-30°	546.7	7.9
30°-40°	647.5	9.3
40°-50°	669.4	9.6
50°-60°	616.7	8.9
60°-70°	498.5	7.2
70°-80°	333.6	4.8
80°-90°	173.9	2.5
90°-100°	161.7	2.3
100°-110°	263.3	3.8
110°-120°	373.1	5.4
120°-130°	455.2	6.5
130°-140°	491.5	7.1
140°-150°	472.5	6.8
150°-160°	394.9	5.7
160°-170°	262.5	3.8
170°-180°	91.9	1.3
0°-30°	1043.9	15.0
0°-40°	1691.5	24.3
0°-60°	2977.5	42.8
0°-90°	3983.5	57.3
90°-120°	798.0	11.5
90°-150°	2217.2	31.9
90°-180°	2966.0	42.7
0°-180°	6950.0	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	18
95°	66	103	156	191	202	65
105°	184	210	254	286	297	196
115°	334	346	382	406	413	330
125°	480	484	511	531	537	430
135°	620	624	634	651	655	478
145°	750	751	754	760	764	468
155°	856	856	857	860	856	394
165°	931	930	930	934	929	263
175°	968	965	965	970	964	92
180°	970	970	970	970	970	

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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	156.8	168.4
92.5°	41.5	84.1	137.9	172.7	183.6
95°	66.5	102.9	156.2	190.9	201.8
97.5°	91.6	124.6	179.5	212.2	222.3
100°	120.5	148.6	201.4	236.4	246.0
102.5°	151.6	180.9	226.3	260.6	271.0
105°	184.3	209.5	254.3	285.6	297.3
107.5°	219.9	242.5	285.1	314.3	322.3
110°	257.1	277.0	316.9	344.6	353.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.4	310.0	349.2	374.2	382.0
115°	333.6	345.9	382.3	405.8	413.0
117.5°	371.5	378.9	414.0	437.6	444.0
120°	407.7	415.5	447.2	470.0	475.0
122.5°	445.7	447.8	479.5	500.3	506.1
125°	480.4	483.6	511.2	531.1	537.1
127.5°	517.6	518.5	542.1	561.4	568.0
130°	551.5	554.0	574.3	592.4	597.6
132.5°	584.2	591.0	603.7	621.7	624.8
135°	620.5	623.6	633.8	651.3	654.9
137.5°	654.5	657.6	664.5	681.4	683.0
140°	685.5	689.3	693.0	709.2	710.8
142.5°	718.0	719.7	722.8	735.6	737.1
145°	749.7	751.4	753.7	760.4	763.5
147.5°	777.9	780.1	781.7	786.6	783.3
150°	807.3	806.6	809.6	809.6	809.4
152.5°	831.5	833.0	833.8	836.0	833.0
155°	856.4	856.4	857.2	860.2	856.4
157.5°	879.1	877.6	878.3	881.3	876.1
160°	898.7	896.5	897.2	900.2	896.5
162.5°	916.1	914.6	914.6	918.4	913.8
165°	931.2	929.7	930.4	933.5	928.9
167.5°	944.8	941.8	941.8	946.3	941.8
170°	955.4	952.3	952.3	956.9	951.6
172.5°	962.9	959.9	959.9	964.4	959.9
175°	968.2	965.2	965.2	969.7	964.4
177.5°	972.0	969.0	968.2	972.7	967.4
180°	970.5	970.5	970.5	970.5	970.5

(END OF REPORT)