

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: P1036163

Luminaire Tested: S125RDIW-B850D770UB50-4F0-XX-W2A-F1

Issue Date: 5/6/2025

Test Information

Test Method: LM-79-2019
Report Number: P1036163
REPORT IS A COMBINATION OF REPORTS P1007017 AND P1007351
Test Lab: INNOVATION CENTER
Issue Date: 5/6/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDIW-B850D770UB50-4F0-XX-W2A-F1
Description: Define 5 Regressed Direct/Indirect Wall Mount with 5000K BioUP LEDs {m-DER=1.015}
{m-EER=1.115}
Light Source: -
Ballast/Driver: -

Summary

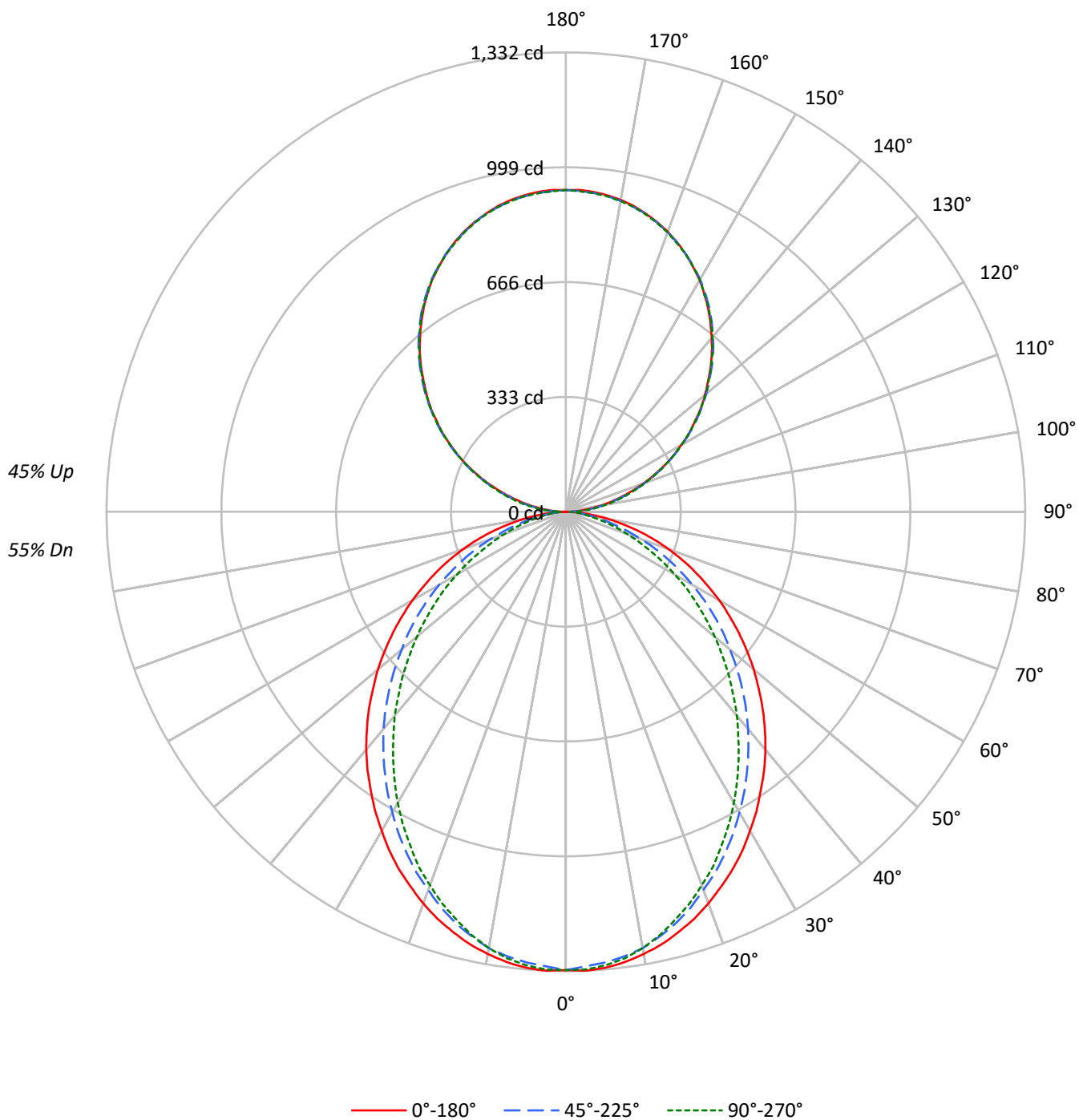
Lumens per Lamp: N/A
Luminaire Lumens: 5745.0 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular w/ Sides (W: 0.42' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 59.1
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	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60
1	99	95	91	88	92	88	85	82	76	73	71	64	63	61	54	53	52
2	90	83	77	72	84	77	72	68	67	63	59	57	54	51	48	46	44
3	83	73	66	60	76	68	62	57	59	54	50	50	47	44	42	40	37
4	76	65	57	51	70	61	54	48	53	47	43	45	41	38	38	35	32
5	70	58	50	44	64	54	47	42	47	41	37	41	36	33	34	31	28
6	64	52	44	38	59	49	42	36	43	37	33	37	32	29	31	28	25
7	59	47	39	34	55	44	37	32	39	33	29	33	29	26	29	25	22
8	55	43	35	30	51	40	33	28	35	30	26	31	26	23	26	23	20
9	51	39	32	27	48	37	30	25	32	27	23	28	24	21	24	21	18
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8515	8515	8515
5°	8516	8303	8316
10°	8433	8094	8023
15°	8314	7801	7636
20°	8166	7448	7231
25°	7996	7104	6796
30°	7789	6726	6340
35°	7577	6342	5855
40°	7376	5948	5381
45°	7134	5521	4885
50°	6889	5069	4380
55°	6604	4625	3857
60°	6312	4115	3315
65°	5966	3546	2730
70°	5560	2887	2148
75°	4999	2171	1566
80°	4217	1406	1057
85°	3156	755	595

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7134 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.1	2.2
10°-20°	349.6	6.1
20°-30°	506.9	8.8
30°-40°	577.5	10.1
40°-50°	562.8	9.8
50°-60°	473.7	8.2
60°-70°	331.9	5.8
70°-80°	170.2	3.0
80°-90°	43.9	0.8
90°-100°	62.0	1.1
100°-110°	184.3	3.2
110°-120°	312.5	5.4
120°-130°	411.4	7.2
130°-140°	461.1	8.0
140°-150°	451.9	7.9
150°-160°	379.6	6.6
160°-170°	252.3	4.4
170°-180°	88.3	1.5
0°-30°	981.5	17.1
0°-40°	1559.0	27.1
0°-60°	2595.5	45.2
0°-90°	3141.5	54.7
90°-120°	558.8	9.7
90°-150°	1883.3	32.8
90°-180°	2603.0	45.3
0°-180°	5745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1329	1329	1329	1329	1329	
5°	1327	1323	1312	1322	1320	126
15°	1262	1256	1235	1234	1225	356
25°	1144	1129	1092	1079	1068	527
35°	986	962	916	887	873	617
45°	807	778	723	683	668	622
55°	612	580	524	479	463	548
65°	415	380	327	287	272	411
75°	221	191	149	126	120	233
85°	55	37	32	31	30	60
90°	1	6	12	15	17	6
95°	47	49	56	61	62	49
105°	166	169	174	178	180	176
115°	313	316	317	316	316	310
125°	457	461	462	460	460	409
135°	594	598	599	599	596	458
145°	719	722	724	724	722	450
155°	823	823	824	827	823	379
165°	895	894	894	897	893	253
175°	931	928	928	932	927	88
180°	933	933	933	933	933	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1329.0	1329.0	1329.0	1329.0	1329.0
2.5°	1332.0	1329.0	1319.0	1329.0	1328.0
5°	1327.0	1323.0	1312.0	1322.0	1320.0
7.5°	1317.0	1313.0	1299.9	1307.9	1305.9
10°	1301.9	1298.9	1284.9	1287.9	1284.9
12.5°	1284.9	1280.8	1260.8	1262.8	1257.8
15°	1261.8	1255.7	1234.7	1233.7	1224.6
17.5°	1237.7	1228.6	1203.5	1198.5	1191.5
20°	1208.6	1198.5	1166.4	1161.4	1152.4
22.5°	1176.4	1166.4	1132.3	1121.2	1114.2
25°	1144.3	1129.3	1092.1	1079.1	1068.0
27.5°	1108.2	1090.1	1051.0	1033.9	1022.9
30°	1068.0	1049.0	1006.8	983.7	974.7
32.5°	1028.9	1005.8	962.6	936.5	924.5
35°	985.7	961.6	916.5	887.4	873.3
37.5°	944.6	915.5	869.3	835.2	821.1
40°	900.4	870.3	822.1	784.0	771.9
42.5°	854.2	823.1	772.9	736.8	717.7
45°	807.0	777.9	722.7	682.6	667.5
47.5°	757.9	727.7	672.5	631.4	614.3
50°	711.7	678.6	621.3	579.2	564.1
52.5°	661.5	627.4	574.2	528.0	512.9
55°	612.3	580.2	524.0	478.8	462.7
57.5°	562.1	528.0	473.8	429.6	415.6
60°	513.9	478.8	424.6	380.4	365.4
62.5°	462.7	429.6	374.4	334.3	319.2
65°	414.6	380.4	327.2	287.1	272.0
67.5°	366.4	332.3	281.1	242.9	230.9
70°	317.2	283.1	232.9	201.8	189.7
72.5°	269.0	235.9	189.7	161.6	154.6
75°	220.8	190.7	148.6	126.5	119.5
77.5°	171.6	147.6	112.4	95.4	89.3
80°	130.5	106.4	78.3	69.3	67.3
82.5°	90.3	69.3	52.2	49.2	48.2
85°	55.2	37.1	32.1	31.1	30.1
87.5°	23.1	16.1	15.1	15.1	14.1
90°	0.7	6.5	11.6	15.2	17.4
92.5°	21.8	25.4	31.9	37.0	38.5
95°	47.2	48.6	55.9	61.0	62.4
97.5°	72.6	73.3	83.5	87.8	88.6
100°	101.6	101.6	111.1	117.6	119.1
102.5°	132.9	136.5	140.1	147.4	149.5
105°	165.5	169.1	173.5	177.9	180.0
107.5°	201.1	204.7	208.4	210.5	210.5
110°	238.1	241.7	243.9	246.1	245.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	275.9	277.3	280.2	280.9	279.5
115°	312.9	315.8	317.2	316.5	315.8
117.5°	350.6	351.4	352.8	353.5	350.6
120°	385.5	389.1	389.8	389.8	386.9
122.5°	423.2	424.0	426.1	425.4	423.2
125°	456.6	461.0	461.7	460.3	459.5
127.5°	493.7	495.8	496.6	495.8	494.4
130°	526.3	530.0	531.4	530.7	529.2
132.5°	559.0	565.5	564.8	564.1	561.9
135°	593.8	598.2	598.9	598.9	596.0
137.5°	626.5	630.9	632.3	633.0	629.4
140°	657.7	661.4	663.5	665.0	661.4
142.5°	688.9	691.8	694.7	695.5	691.8
145°	719.4	722.3	724.5	724.5	722.3
147.5°	747.7	749.9	751.4	753.6	747.7
150°	776.1	775.3	778.2	778.2	776.8
152.5°	799.3	800.7	801.5	803.6	800.7
155°	823.2	823.2	824.0	826.9	823.2
157.5°	845.0	843.6	844.3	847.2	842.1
160°	863.9	861.7	862.4	865.3	861.7
162.5°	880.6	879.1	879.1	882.8	878.4
165°	895.1	893.7	894.4	897.3	892.9
167.5°	908.2	905.3	905.3	909.6	905.3
170°	918.3	915.4	915.4	919.8	914.7
172.5°	925.6	922.7	922.7	927.1	922.7
175°	930.7	927.8	927.8	932.1	927.1
177.5°	934.3	931.4	930.7	935.0	930.0
180°	932.9	932.9	932.9	932.9	932.9

(END OF REPORT)