

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: P1007212

Luminaire Tested: S125RDR-B850DB30-4F0-XX-W2A-F

Issue Date: 5/2/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007212
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/2/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDR-B850DB30-4F0-XX-W2A-F
Description: Define 5 Regressed Direct Recessed with 3000K BioUP LEDs {m-DER=0.589} {m-EER=0.647}
Light Source: -
Ballast/Driver: -

Summary

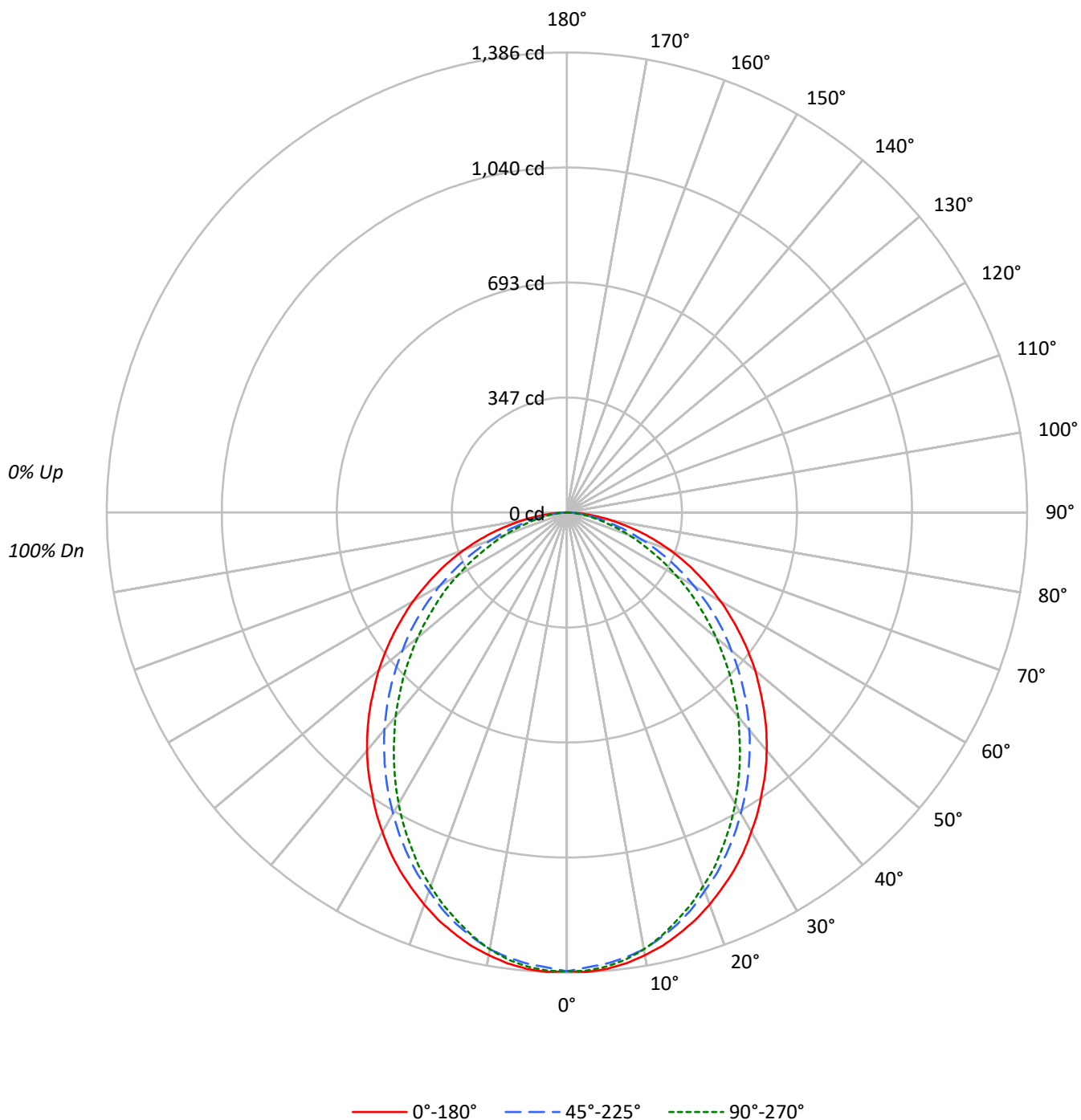
Lumens per Lamp: N/A
Luminaire Lumens: 3266.0 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 35.9
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	87	87	85
2	100	92	86	80	98	90	84	79	87	82	78	84	79	76	81	77	74	74	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	64	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	55	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	48	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	43	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	38	38	36
8	62	49	41	35	61	48	41	35	47	40	35	46	39	35	45	39	34	34	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	31	31	29
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	29	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8857	8857	8857
5°	8877	8777	8831
10°	8810	8695	8695
15°	8705	8518	8449
20°	8571	8272	8172
25°	8414	8030	7853
30°	8219	7747	7500
35°	8020	7456	7104
40°	7833	7152	6715
45°	7606	6811	6291
50°	7378	6442	5849
55°	7114	6088	5376
60°	6850	5659	4869
65°	6537	5161	4289
70°	6180	4537	3696
75°	5686	3825	3075
80°	5007	3003	2583
85°	4220	2455	2301

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 7606 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.1	4.0
10°-20°	363.6	11.1
20°-30°	527.2	16.1
30°-40°	600.6	18.4
40°-50°	585.4	17.9
50°-60°	492.7	15.1
60°-70°	345.2	10.6
70°-80°	177.0	5.4
80°-90°	44.1	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1020.9	31.3
0°-40°	1621.5	49.6
0°-60°	2699.6	82.7
0°-90°	3266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1382	1382	1382	1382	1382	
5°	1380	1376	1365	1375	1373	131
15°	1312	1306	1284	1283	1274	370
25°	1190	1175	1136	1122	1111	548
35°	1025	1000	953	923	908	642
45°	839	809	752	710	694	647
55°	637	604	545	498	481	570
65°	431	396	340	299	283	427
75°	230	198	154	132	124	243
85°	57	39	33	32	31	66
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1382.3	1382.3	1382.3	1382.3	1382.3
2.5°	1385.5	1382.3	1371.9	1382.3	1381.3
5°	1380.3	1376.1	1364.6	1375.0	1373.0
7.5°	1369.8	1365.6	1352.1	1360.4	1358.3
10°	1354.2	1351.0	1336.4	1339.5	1336.4
12.5°	1336.4	1332.2	1311.4	1313.4	1308.2
15°	1312.4	1306.1	1284.2	1283.2	1273.8
17.5°	1287.3	1277.9	1251.8	1246.6	1239.3
20°	1257.1	1246.6	1213.2	1208.0	1198.6
22.5°	1223.7	1213.2	1177.7	1166.2	1158.9
25°	1190.2	1174.6	1135.9	1122.4	1110.9
27.5°	1152.7	1133.9	1093.1	1075.4	1063.9
30°	1110.9	1091.1	1047.2	1023.2	1013.8
32.5°	1070.2	1046.2	1001.3	974.1	961.6
35°	1025.3	1000.2	953.2	923.0	908.3
37.5°	982.5	952.2	904.2	868.7	854.0
40°	936.5	905.2	855.1	815.4	802.9
42.5°	888.5	856.1	803.9	766.3	746.5
45°	839.4	809.2	751.7	710.0	694.3
47.5°	788.3	757.0	699.5	656.7	639.0
50°	740.2	705.8	646.3	602.4	586.8
52.5°	688.0	652.5	597.2	549.2	533.5
55°	636.9	603.5	545.0	498.0	481.3
57.5°	584.7	549.2	492.8	446.9	432.2
60°	534.6	498.0	441.6	395.7	380.0
62.5°	481.3	446.9	389.4	347.7	332.0
65°	431.2	395.7	340.4	298.6	282.9
67.5°	381.1	345.6	292.3	252.7	240.1
70°	329.9	294.4	242.2	209.9	197.3
72.5°	279.8	245.4	197.3	168.1	160.8
75°	229.7	198.4	154.5	131.6	124.2
77.5°	178.5	153.5	116.9	99.2	92.9
80°	135.7	110.7	81.4	72.0	70.0
82.5°	94.0	72.0	54.3	51.2	50.1
85°	57.4	38.6	33.4	32.4	31.3
87.5°	24.0	16.7	15.7	15.7	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)