

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: NEO-RAY

Report Number: P334427

Luminaire Tested: **S125RDW-S850D930-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334427  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125RDW-S850D930-4F0-1E-UDD-F  
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 850 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2550.4 lumens  
Efficiency: N/A  
Efficacy: 97.0 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

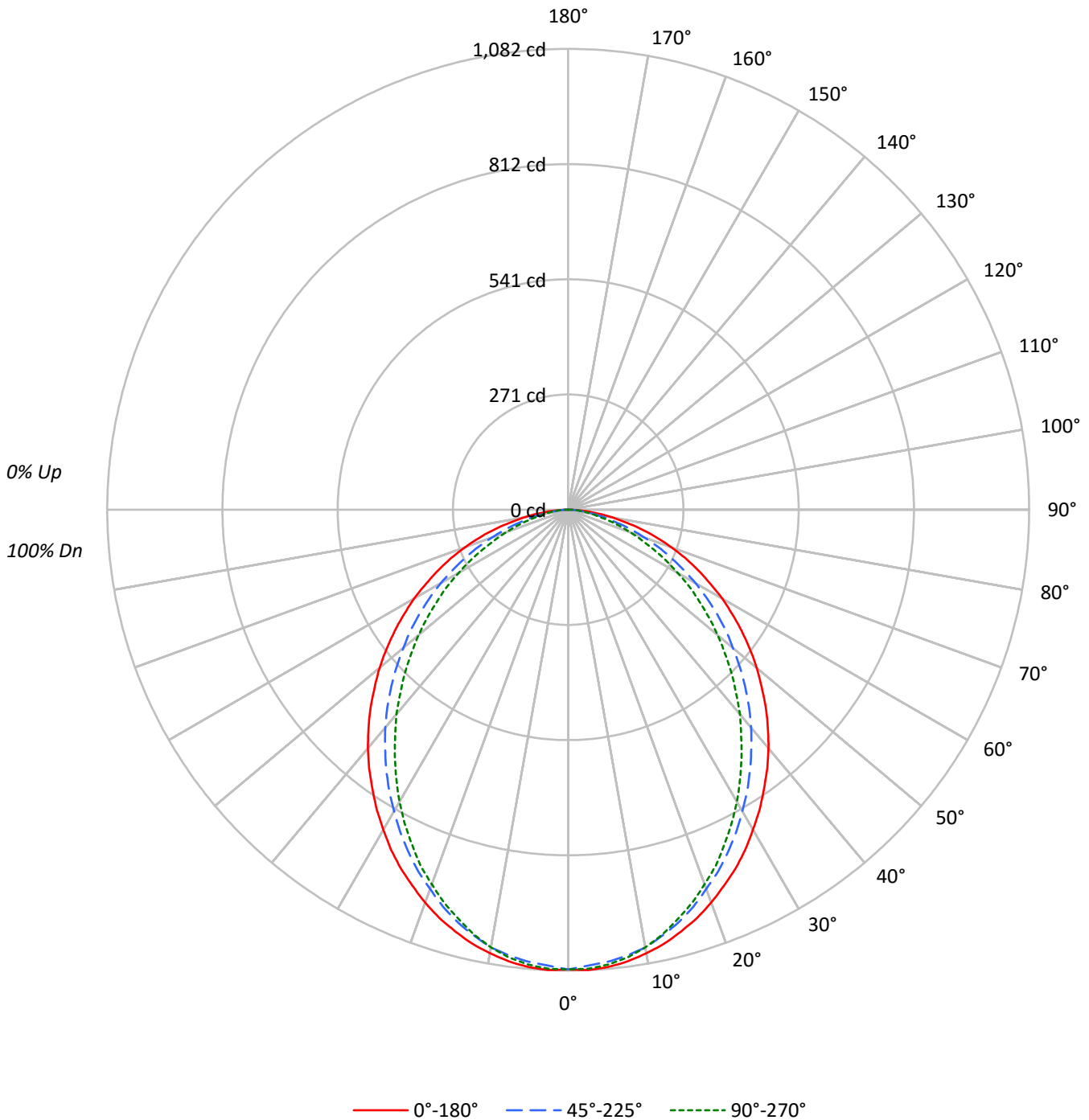
Input Watts (W): 26.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	6972	6972	6972
5°	6987	6908	6950
10°	6934	6844	6844
15°	6852	6705	6651
20°	6746	6511	6433
25°	6623	6321	6182
30°	6469	6098	5904
35°	6312	5869	5592
40°	6165	5629	5286
45°	5987	5361	4952
50°	5807	5071	4604
55°	5599	4792	4233
60°	5391	4455	3834
65°	5145	4062	3376
70°	4864	3571	2910
75°	4477	3012	2420
80°	3942	2365	2031
85°	3320	1934	1815



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	4.0
10°-20°	283.9	11.1
20°-30°	411.7	16.1
30°-40°	469.0	18.4
40°-50°	457.2	17.9
50°-60°	384.7	15.1
60°-70°	269.6	10.6
70°-80°	138.2	5.4
80°-90°	34.5	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°	797.2	31.3
0°-40°	1266.2	49.6
0°-60°	2108.1	82.7
0°-90°	2550.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2550.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1078	1075	1066	1074	1072	102
15°	1025	1020	1003	1002	995	289
25°	929	917	887	876	868	428
35°	801	781	744	721	709	501
45°	656	632	587	554	542	506
55°	497	471	426	389	376	445
65°	337	309	266	233	221	333
75°	179	155	121	103	97	190
85°	45	30	26	25	24	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1079.5	1079.5	1079.5	1079.5	1079.5
2.5°	1081.9	1079.5	1071.3	1079.5	1078.6
5°	1077.8	1074.6	1065.6	1073.7	1072.1
7.5°	1069.7	1066.4	1055.8	1062.3	1060.7
10°	1057.4	1055.0	1043.6	1046.0	1043.6
12.5°	1043.6	1040.3	1024.0	1025.6	1021.6
15°	1024.8	1019.9	1002.8	1002.0	994.7
17.5°	1005.3	997.9	977.5	973.5	967.8
20°	981.6	973.5	947.4	943.3	936.0
22.5°	955.5	947.4	919.7	910.7	905.0
25°	929.4	917.2	887.0	876.4	867.5
27.5°	900.1	885.4	853.6	839.8	830.8
30°	867.5	852.0	817.7	799.0	791.7
32.5°	835.7	816.9	781.9	760.7	750.9
35°	800.6	781.1	744.4	720.7	709.3
37.5°	767.2	743.6	706.0	678.3	666.9
40°	731.3	706.9	667.7	636.7	627.0
42.5°	693.8	668.5	627.8	598.4	582.9
45°	655.5	631.9	587.0	554.4	542.2
47.5°	615.6	591.1	546.3	512.8	499.0
50°	578.0	551.1	504.7	470.4	458.2
52.5°	537.3	509.6	466.4	428.8	416.6
55°	497.3	471.2	425.6	388.9	375.9
57.5°	456.6	428.8	384.8	348.9	337.5
60°	417.4	388.9	344.9	309.0	296.8
62.5°	375.9	348.9	304.1	271.5	259.3
65°	336.7	309.0	265.8	233.2	220.9
67.5°	297.6	269.9	228.3	197.3	187.5
70°	257.6	229.9	189.1	163.9	154.1
72.5°	218.5	191.6	154.1	131.3	125.6
75°	179.4	154.9	120.7	102.7	97.0
77.5°	139.4	119.8	91.3	77.5	72.6
80°	106.0	86.4	63.6	56.3	54.6
82.5°	73.4	56.3	42.4	39.9	39.1
85°	44.8	30.2	26.1	25.3	24.5
87.5°	18.8	13.0	12.2	12.2	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)