

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: P242787

Luminaire Tested: **S125DR-S850D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-S850D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2682.2 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

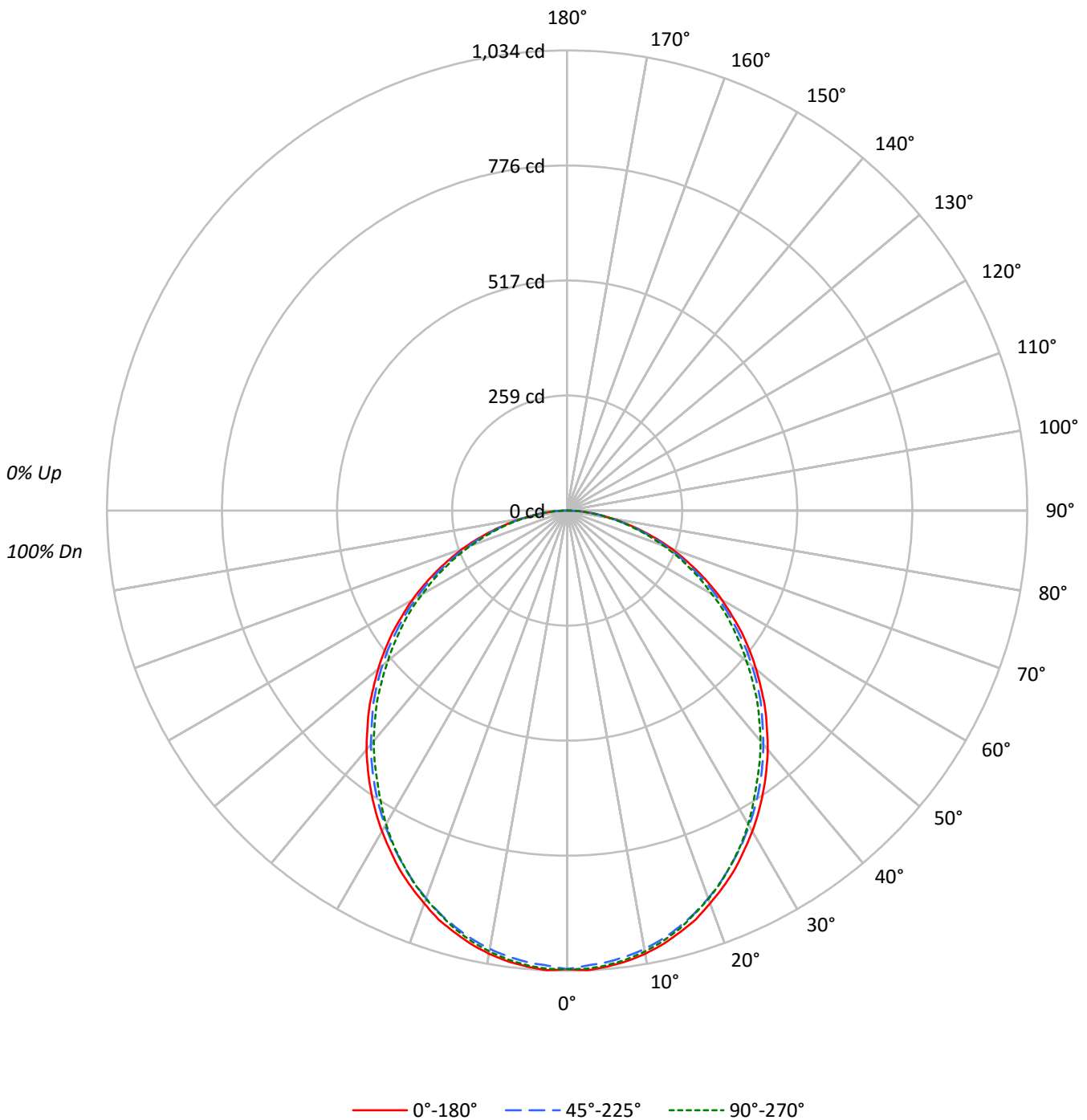
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242787

CATALOG NUMBER: S125DR-S850D930-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242787

CATALOG NUMBER: S125DR-S850D930-X4F0-XX-UDD-F-W

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	104	100	96	106	102	98	95	98	94	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7324	7324	7324
5°	7341	7271	7317
10°	7296	7220	7261
15°	7217	7133	7163
20°	7104	7011	7023
25°	6982	6867	6860
30°	6831	6711	6678
35°	6670	6544	6452
40°	6506	6362	6271
45°	6326	6196	6072
50°	6130	5995	5815
55°	5940	5768	5607
60°	5713	5539	5343
65°	5444	5266	5087
70°	5185	4948	4777
75°	4723	4567	4410
80°	4203	4138	4040
85°	3653	3727	3523



TEST NUMBER: P242787

CATALOG NUMBER: S125DR-S850D930-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.6
10°-20°	274.7	10.2
20°-30°	405.5	15.1
30°-40°	473.1	17.6
40°-50°	475.2	17.7
50°-60°	417.1	15.6
60°-70°	310.7	11.6
70°-80°	177.4	6.6
80°-90°	51.2	1.9
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°	777.4	29.0
0°-40°	1250.6	46.6
0°-60°	2142.9	79.9
0°-90°	2682.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2682.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1029	1027	1019	1026	1026	98
15°	981	978	969	974	974	277
25°	890	886	876	877	875	410
35°	769	766	754	750	744	481
45°	629	626	616	607	604	485
55°	479	477	466	458	452	428
65°	324	322	313	306	302	321
75°	172	170	166	164	161	183
85°	45	46	46	45	43	52
90°	0	0	0	0	0	



TEST NUMBER: P242787

CATALOG NUMBER: S125DR-S850D930-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1030.5	1030.5	1030.5	1030.5	1030.5
2.5°	1033.8	1031.4	1023.2	1031.4	1030.5
5°	1028.9	1027.3	1019.1	1026.5	1025.6
7.5°	1021.6	1019.9	1011.0	1018.3	1017.5
10°	1011.0	1009.3	1000.4	1006.9	1006.1
12.5°	997.9	994.7	986.5	991.4	991.4
15°	980.8	978.4	969.4	973.5	973.5
17.5°	962.9	958.8	949.8	954.7	950.6
20°	939.2	937.6	927.0	932.7	928.6
22.5°	915.6	912.3	902.5	905.8	903.4
25°	890.3	886.2	875.6	877.3	874.8
27.5°	861.0	858.5	847.9	848.7	846.3
30°	832.4	830.0	817.7	816.1	813.7
32.5°	801.4	797.4	786.8	783.5	778.6
35°	768.8	765.6	754.2	750.1	743.6
37.5°	735.4	731.3	720.7	715.0	710.9
40°	701.2	697.1	685.7	678.3	675.9
42.5°	664.5	661.2	649.8	643.3	639.2
45°	629.4	626.1	616.4	606.6	604.1
47.5°	591.1	591.9	579.7	569.9	564.2
50°	554.4	552.0	542.2	531.6	525.9
52.5°	516.9	515.3	504.7	495.7	489.2
55°	479.4	476.9	465.5	458.2	452.5
57.5°	439.4	438.6	428.8	419.1	416.6
60°	401.9	398.7	389.7	381.6	375.9
62.5°	362.8	360.4	353.0	344.1	340.0
65°	323.7	322.0	313.1	305.7	302.5
67.5°	285.4	282.1	275.6	269.0	267.4
70°	249.5	245.4	238.1	233.2	229.9
72.5°	210.3	207.9	203.8	198.1	194.9
75°	172.0	170.4	166.3	163.9	160.6
77.5°	136.2	135.3	132.9	131.3	128.8
80°	102.7	102.7	101.1	100.3	98.7
82.5°	73.4	71.7	71.7	70.1	70.1
85°	44.8	45.7	45.7	44.8	43.2
87.5°	22.0	22.0	21.2	21.2	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)