

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: P243282

Luminaire Tested: **S123DR-H340D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-49)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123DR-H340D927-X4F0-XX-UDD-F-W
Description: DEFINE 3 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1064.2 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.23' x L: 3.88' x H: 0')
CIE Type: Direct

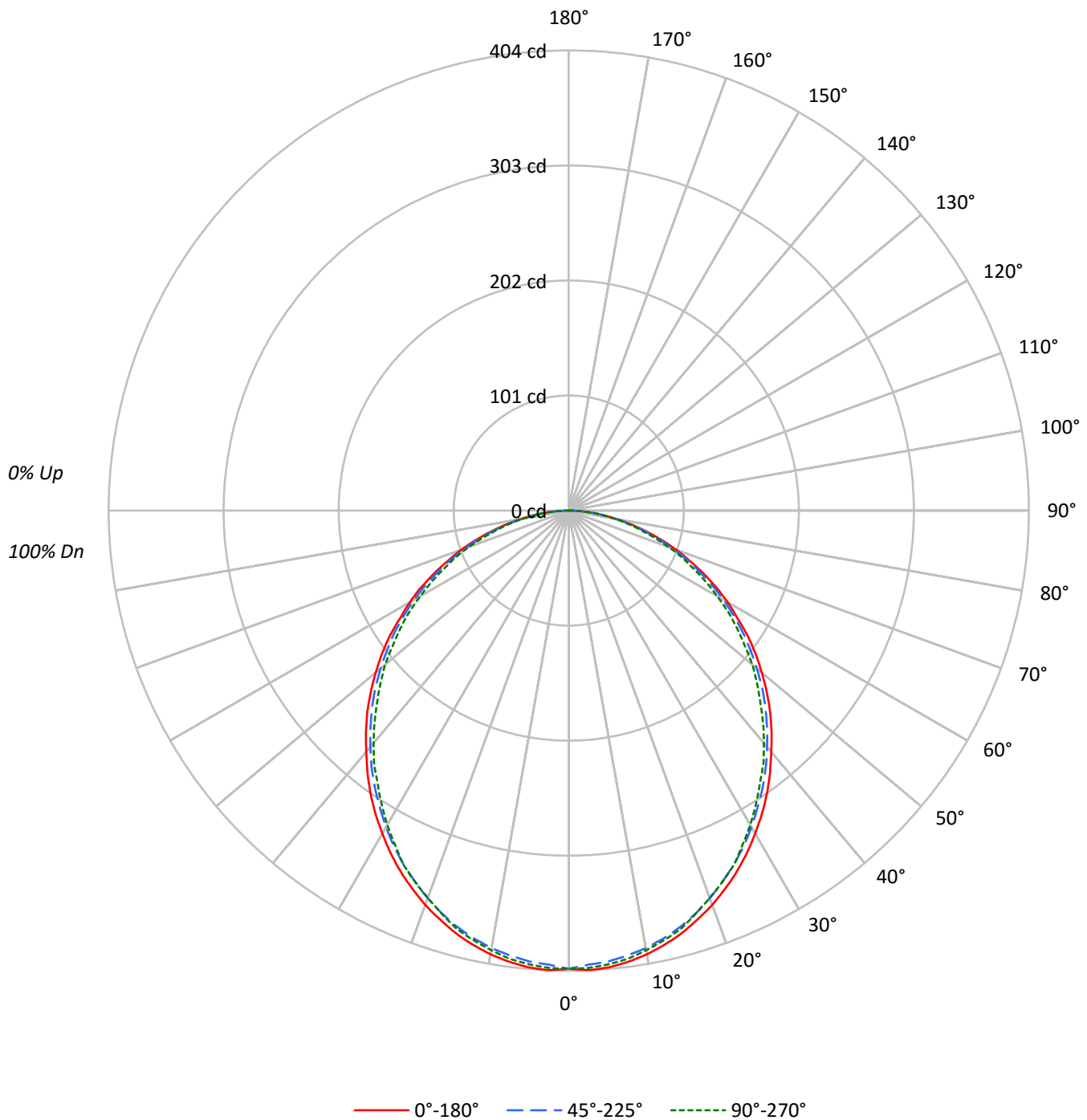
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243282

CATALOG NUMBER: S123DR-H340D927-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot



TEST NUMBER: P243282

CATALOG NUMBER: S123DR-H340D927-X4F0-XX-UDD-F-W

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	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	83	77	85	80	76	82	78	74	79	75	72	70		
3	90	80	72	65	88	78	71	65	75	69	64	73	67	62	70	65	61	59		
4	83	71	62	55	80	70	61	55	67	60	54	65	59	54	63	57	53	51		
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39		
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34		
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30		
9	57	44	35	30	56	43	35	30	42	35	30	41	34	29	40	34	29	27		
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4876	4876	4876
5°	4899	4834	4866
10°	4869	4800	4825
15°	4819	4748	4770
20°	4752	4671	4667
25°	4674	4586	4590
30°	4581	4493	4461
35°	4489	4392	4328
40°	4377	4286	4218
45°	4287	4184	4076
50°	4171	4066	3966
55°	4051	3945	3812
60°	3908	3804	3651
65°	3737	3625	3470
70°	3551	3431	3292
75°	3292	3199	3030
80°	2960	2897	2799
85°	2768	2629	2531

TEST NUMBER: P243282

CATALOG NUMBER: S123DR-H340D927-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	3.6
10°-20°	107.3	10.1
20°-30°	158.9	14.9
30°-40°	186.3	17.5
40°-50°	188.4	17.7
50°-60°	166.6	15.7
60°-70°	125.1	11.8
70°-80°	72.1	6.8
80°-90°	21.4	2.0
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°	304.2	28.6
0°-40°	490.5	46.1
0°-60°	845.5	79.5
0°-90°	1064.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1064.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	402	402	402	402	402	
5°	403	401	397	401	400	38
15°	384	382	378	381	380	108
25°	350	347	343	345	343	161
35°	303	301	297	296	292	190
45°	250	248	244	241	238	193
55°	192	190	187	183	180	171
65°	130	129	126	123	121	129
75°	70	70	68	66	65	74
85°	20	20	19	19	18	22
90°	0	0	0	0	0	

TEST NUMBER: P243282

CATALOG NUMBER: S123DR-H340D927-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	402.3	402.3	402.3	402.3	402.3
2.5°	403.9	402.6	399.0	402.6	401.9
5°	402.6	400.9	397.3	400.6	399.9
7.5°	399.6	398.0	394.0	397.6	397.0
10°	395.6	394.0	390.0	393.0	392.0
12.5°	390.3	388.7	384.7	387.0	386.4
15°	384.0	382.0	378.4	381.0	380.1
17.5°	376.4	374.7	370.8	374.1	371.1
20°	368.4	366.8	362.1	365.1	361.8
22.5°	359.2	357.2	352.5	354.5	352.9
25°	349.5	346.9	342.9	344.6	343.2
27.5°	338.9	336.3	332.3	333.0	330.6
30°	327.3	325.0	321.0	321.7	318.7
32.5°	315.7	313.7	308.7	308.7	305.8
35°	303.4	300.8	296.8	295.8	292.5
37.5°	290.2	287.9	284.2	282.6	280.6
40°	276.6	275.3	270.9	269.0	266.6
42.5°	263.6	261.3	257.7	255.0	252.4
45°	250.1	248.1	244.1	240.8	237.8
47.5°	235.8	234.1	230.2	226.5	224.2
50°	221.2	219.9	215.6	211.6	210.3
52.5°	206.9	205.3	201.0	197.3	194.7
55°	191.7	190.4	186.7	183.1	180.4
57.5°	175.4	175.4	171.5	168.1	166.1
60°	161.2	159.5	156.9	153.2	150.6
62.5°	146.2	145.3	141.6	138.0	136.0
65°	130.3	129.3	126.4	123.0	121.0
67.5°	114.7	114.4	111.8	109.1	107.8
70°	100.2	99.5	96.8	94.2	92.9
72.5°	85.2	84.6	82.2	79.9	78.3
75°	70.3	69.6	68.3	66.3	64.7
77.5°	55.7	55.7	54.1	53.4	52.7
80°	42.4	42.1	41.5	40.8	40.1
82.5°	30.5	30.2	29.5	29.2	29.2
85°	19.9	19.6	18.9	18.6	18.2
87.5°	10.3	9.6	9.3	8.6	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)