

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: P242275

Luminaire Tested: **S122DR-S485D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242275
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-S485D935-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1635.8 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

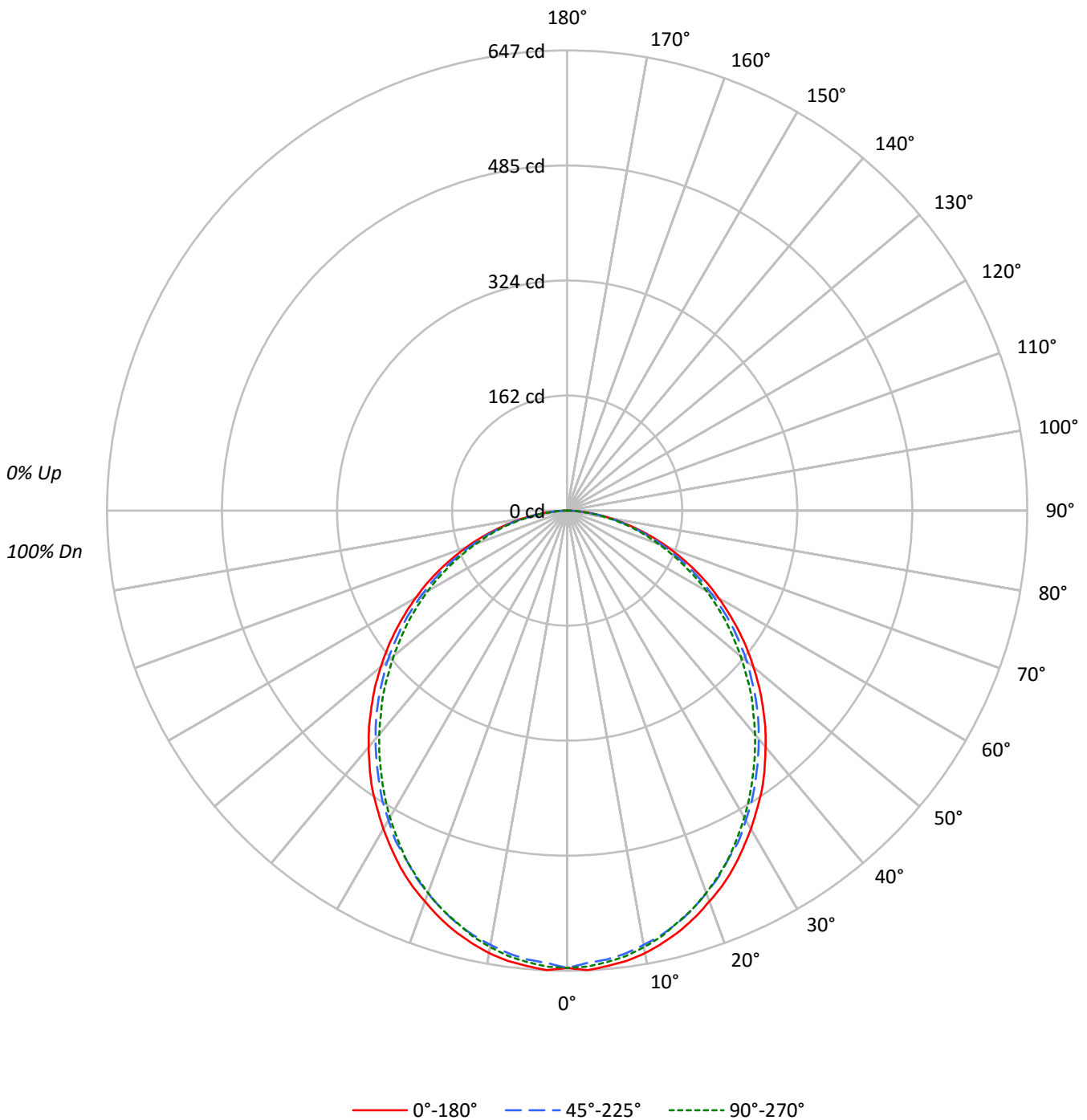
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242275

CATALOG NUMBER: S122DR-S485D935-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242275

CATALOG NUMBER: S122DR-S485D935-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	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12248	12248	12248
5°	12294	12117	12187
10°	12220	11994	12054
15°	12068	11838	11826
20°	11854	11605	11592
25°	11641	11318	11318
30°	11367	11054	10960
35°	11113	10738	10580
40°	10791	10423	10222
45°	10476	10110	9859
50°	10132	9782	9435
55°	9773	9401	9053
60°	9375	8949	8621
65°	8942	8500	8108
70°	8398	7953	7574
75°	7646	7323	7146
80°	6779	6581	6241
85°	5529	5267	4721



TEST NUMBER: P242275

CATALOG NUMBER: S122DR-S485D935-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.5	3.7
10°-20°	170.3	10.4
20°-30°	250.2	15.3
30°-40°	290.6	17.8
40°-50°	290.3	17.7
50°-60°	253.1	15.5
60°-70°	187.1	11.4
70°-80°	105.9	6.5
80°-90°	27.9	1.7
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°	481.0	29.4
0°-40°	771.6	47.2
0°-60°	1314.9	80.4
0°-90°	1635.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1635.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	643	643	643	643	643	
5°	643	640	634	639	637	61
15°	612	608	600	603	600	172
25°	554	549	538	540	538	255
35°	478	472	462	458	455	298
45°	389	384	375	368	366	300
55°	294	291	283	276	273	263
65°	198	195	189	183	180	196
75°	104	103	100	96	97	111
85°	25	25	24	22	22	30
90°	0	0	0	0	0	



TEST NUMBER: P242275

CATALOG NUMBER: S122DR-S485D935-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	643.0	643.0	643.0	643.0	643.0
2.5°	646.7	643.6	636.8	643.0	641.7
5°	643.0	640.5	633.7	638.6	637.4
7.5°	638.6	634.9	628.1	633.1	631.8
10°	631.8	627.5	620.1	625.0	623.2
12.5°	622.5	618.8	611.4	614.5	613.3
15°	612.0	608.3	600.3	602.8	599.7
17.5°	599.1	595.3	587.3	590.4	587.3
20°	584.8	581.1	572.5	574.3	571.9
22.5°	570.6	565.1	557.0	557.0	555.8
25°	553.9	549.0	538.5	539.7	538.5
27.5°	535.4	531.1	523.0	521.2	518.1
30°	516.8	511.9	502.6	500.8	498.3
32.5°	497.0	493.3	483.4	479.7	477.3
35°	477.9	471.7	461.8	458.1	455.0
37.5°	456.2	450.7	440.8	436.5	433.4
40°	434.0	429.0	419.2	413.6	411.1
42.5°	412.4	407.4	397.5	391.3	387.6
45°	388.9	384.5	375.3	368.5	366.0
47.5°	366.0	361.7	351.8	345.0	341.3
50°	341.9	338.8	330.1	321.5	318.4
52.5°	318.4	314.1	306.0	299.2	294.9
55°	294.3	290.6	283.1	275.7	272.6
57.5°	270.2	267.1	259.0	251.6	249.1
60°	246.1	243.6	234.9	228.1	226.3
62.5°	222.6	218.2	212.0	205.9	203.4
65°	198.4	194.7	188.6	183.0	179.9
67.5°	173.7	170.6	165.1	160.7	158.3
70°	150.8	148.4	142.8	138.5	136.0
72.5°	127.4	124.9	121.8	117.5	115.6
75°	103.9	102.6	99.5	95.8	97.1
77.5°	82.8	80.4	79.1	77.3	75.4
80°	61.8	61.2	60.0	58.1	56.9
82.5°	42.0	42.0	41.4	38.9	38.9
85°	25.3	24.7	24.1	22.3	21.6
87.5°	11.1	9.9	8.7	6.8	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)