

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: P242253

Luminaire Tested: **S122DR-S865D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242253
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-S865D927-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2673.0 lumens
Efficiency: N/A
Efficacy: 76.8 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

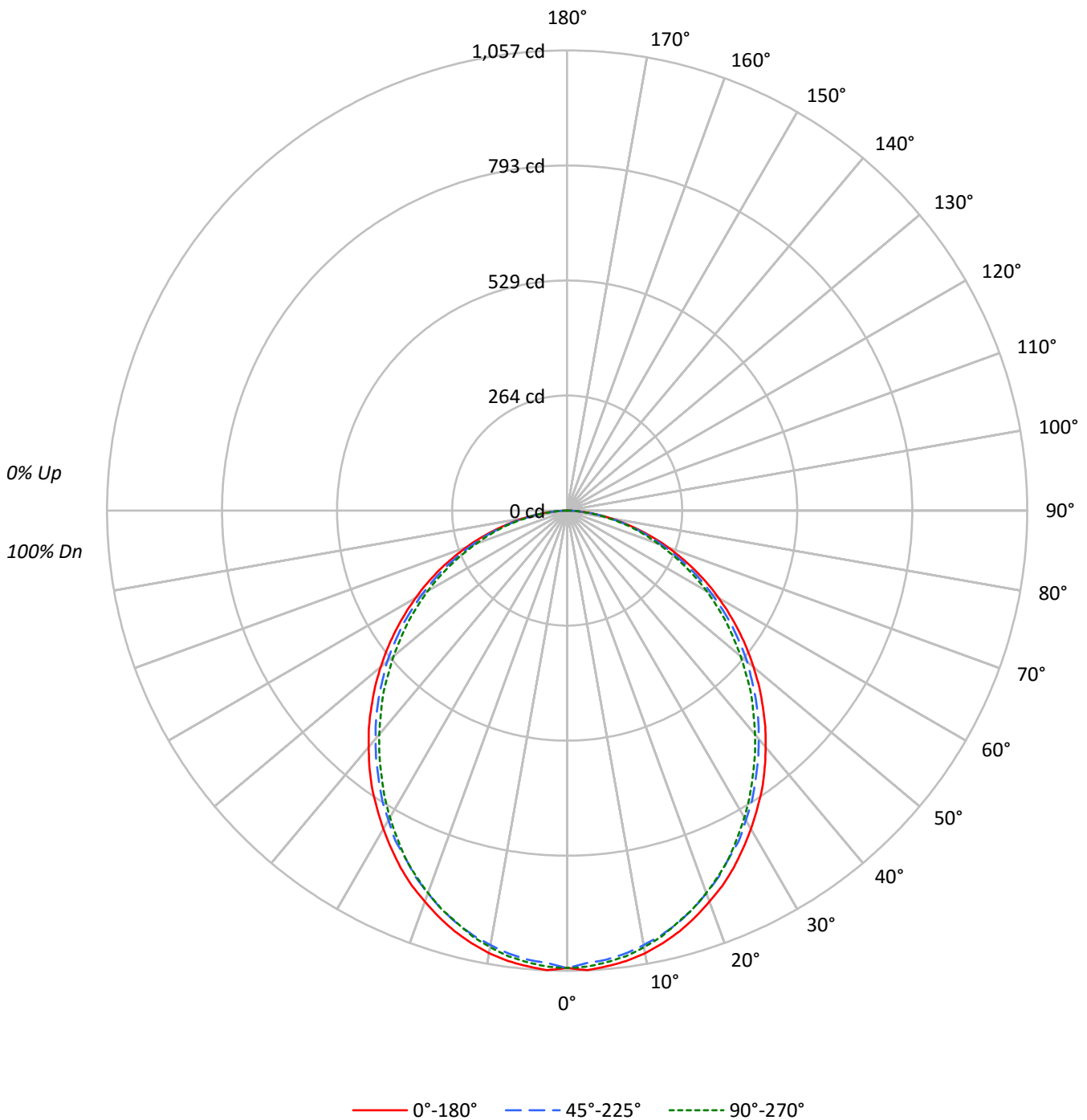
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242253

CATALOG NUMBER: S122DR-S865D927-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242253

CATALOG NUMBER: S122DR-S865D927-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°	20012	20012	20012
5°	20088	19799	19914
10°	19970	19599	19696
15°	19722	19343	19323
20°	19372	18963	18942
25°	19024	18493	18493
30°	18576	18064	17908
35°	18158	17547	17289
40°	17634	17030	16704
45°	17116	16518	16111
50°	16556	15987	15418
55°	15970	15366	14794
60°	15318	14625	14084
65°	14616	13886	13251
70°	13728	12998	12380
75°	12489	11966	11672
80°	11079	10750	10190
85°	9048	8611	7737



TEST NUMBER: P242253

CATALOG NUMBER: S122DR-S865D927-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.7
10°-20°	278.2	10.4
20°-30°	408.9	15.3
30°-40°	474.9	17.8
40°-50°	474.3	17.7
50°-60°	413.6	15.5
60°-70°	305.7	11.4
70°-80°	173.0	6.5
80°-90°	45.6	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°	786.0	29.4
0°-40°	1260.8	47.2
0°-60°	2148.7	80.4
0°-90°	2673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1051	1047	1036	1044	1042	100
15°	1000	994	981	985	980	282
25°	905	897	880	882	880	417
35°	781	771	755	749	744	488
45°	635	628	613	602	598	490
55°	481	475	463	451	446	430
65°	324	318	308	299	294	321
75°	170	168	163	157	159	181
85°	41	40	39	36	35	49
90°	0	0	0	0	0	



TEST NUMBER: P242253

CATALOG NUMBER: S122DR-S865D927-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.6	1050.6	1050.6	1050.6	1050.6
2.5°	1056.7	1051.6	1040.5	1050.6	1048.6
5°	1050.6	1046.6	1035.5	1043.6	1041.5
7.5°	1043.6	1037.5	1026.4	1034.5	1032.5
10°	1032.5	1025.4	1013.3	1021.3	1018.3
12.5°	1017.3	1011.2	999.1	1004.2	1002.1
15°	1000.1	994.1	980.9	985.0	979.9
17.5°	978.9	972.9	959.7	964.8	959.7
20°	955.7	949.6	935.5	938.5	934.5
22.5°	932.4	923.3	910.2	910.2	908.2
25°	905.2	897.1	879.9	881.9	879.9
27.5°	874.9	867.8	854.7	851.6	846.6
30°	844.6	836.5	821.3	818.3	814.2
32.5°	812.2	806.2	790.0	783.9	779.9
35°	780.9	770.8	754.6	748.6	743.5
37.5°	745.5	736.5	720.3	713.2	708.2
40°	709.2	701.1	684.9	675.8	671.8
42.5°	673.8	665.7	649.6	639.5	633.4
45°	635.4	628.4	613.2	602.1	598.1
47.5°	598.1	591.0	574.8	563.7	557.6
50°	558.7	553.6	539.5	525.3	520.3
52.5°	520.3	513.2	500.1	489.0	481.9
55°	480.9	474.8	462.7	450.6	445.5
57.5°	441.5	436.4	423.3	411.2	407.1
60°	402.1	398.0	383.9	372.8	369.7
62.5°	363.7	356.6	346.5	336.4	332.4
65°	324.3	318.2	308.1	299.0	294.0
67.5°	283.9	278.8	269.7	262.7	258.6
70°	246.5	242.5	233.4	226.3	222.3
72.5°	208.1	204.1	199.0	191.9	188.9
75°	169.7	167.7	162.6	156.6	158.6
77.5°	135.4	131.3	129.3	126.3	123.2
80°	101.0	100.0	98.0	95.0	92.9
82.5°	68.7	68.7	67.7	63.6	63.6
85°	41.4	40.4	39.4	36.4	35.4
87.5°	18.2	16.2	14.1	11.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)