

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: P242373

Luminaire Tested: **S122RDR-S485D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDR-S485D930-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED 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: 1330.4 lumens
Efficiency: N/A
Efficacy: 70.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 0.99 / 1.16
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

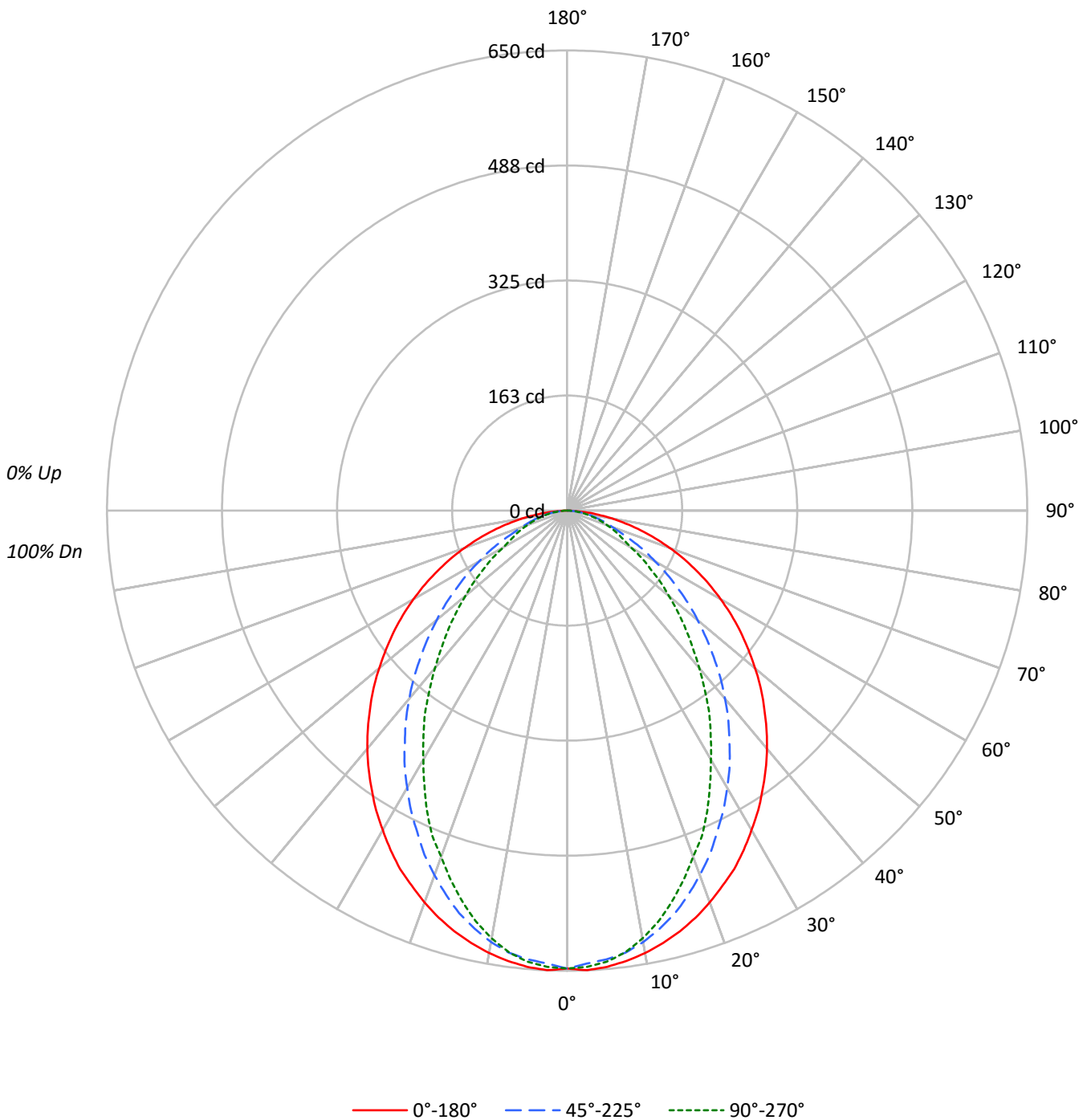
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88					86				
2	101	94	87	82	98	92	86	81	88	83	79	85	81	78	82	79	76					74				
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66					64				
4	86	75	66	60	83	73	66	60	71	64	59	69	63	58	66	62	57					55				
5	79	67	59	53	77	66	58	52	64	57	52	62	56	51	60	55	51					49				
6	74	61	53	47	72	60	52	46	58	51	46	57	50	46	55	50	45					43				
7	68	56	47	42	67	55	47	42	53	46	41	52	46	41	51	45	41					39				
8	64	51	43	38	62	51	43	37	49	42	37	48	42	37	47	41	37					35				
9	60	47	39	34	59	47	39	34	46	39	34	44	38	34	44	38	34					32				
10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31					29				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12322	12322	12322
5°	12369	12166	12233
10°	12274	11969	11866
15°	12133	11613	11278
20°	11937	11106	10549
25°	11738	10532	9842
30°	11459	9939	8936
35°	11189	9297	8141
40°	10918	8631	7221
45°	10597	7885	6387
50°	10271	7130	5568
55°	9933	6320	4782
60°	9547	5463	3970
65°	9104	4593	3615
70°	8577	3781	3325
75°	7926	3444	3098
80°	6998	3082	2830
85°	5507	2426	2426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	4.6
10°-20°	166.4	12.5
20°-30°	233.7	17.6
30°-40°	254.7	19.1
40°-50°	234.1	17.6
50°-60°	183.8	13.8
60°-70°	119.7	9.0
70°-80°	61.6	4.6
80°-90°	15.7	1.2
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
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0°-30°	460.7	34.6
0°-40°	715.4	53.8
0°-60°	1133.4	85.2
0°-90°	1330.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1330.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	647	647	647	647	647	
5°	647	644	636	642	640	61
15°	615	609	589	578	572	173
25°	558	540	501	477	468	257
35°	481	451	400	363	350	301
45°	393	354	293	251	237	304
55°	299	254	190	155	144	267
65°	202	154	102	82	80	200
75°	108	67	47	43	42	114
85°	25	13	11	11	11	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	646.9	646.9	646.9	646.9	646.9
2.5°	649.8	646.9	640.4	646.3	645.1
5°	646.9	643.9	636.3	641.6	639.8
7.5°	641.6	638.1	629.9	632.2	629.3
10°	634.6	630.5	618.8	617.0	613.5
12.5°	625.8	620.5	604.7	601.2	594.8
15°	615.3	608.8	588.9	577.8	571.9
17.5°	603.0	593.6	569.0	556.1	546.8
20°	588.9	577.2	547.9	533.3	520.4
22.5°	573.7	560.2	526.3	506.4	497.6
25°	558.5	539.7	501.1	477.1	468.3
27.5°	540.3	520.4	477.7	450.2	436.7
30°	521.0	498.8	451.9	422.1	406.3
32.5°	502.3	475.3	427.3	392.2	377.6
35°	481.2	451.3	399.8	363.0	350.1
37.5°	460.7	428.5	374.1	333.7	319.0
40°	439.1	403.9	347.1	305.6	290.4
42.5°	416.8	379.3	320.2	276.9	262.3
45°	393.4	354.2	292.7	251.1	237.1
47.5°	371.1	329.6	266.4	224.8	211.9
50°	346.6	305.0	240.6	200.2	187.9
52.5°	322.6	278.7	216.0	177.4	166.3
55°	299.1	253.5	190.3	155.1	144.0
57.5°	275.1	228.3	167.4	134.6	125.3
60°	250.6	203.7	143.4	113.6	104.2
62.5°	226.6	179.7	122.9	94.8	90.2
65°	202.0	154.5	101.9	82.0	80.2
67.5°	178.5	131.1	82.0	72.0	70.2
70°	154.0	108.3	67.9	62.1	59.7
72.5°	130.5	87.2	56.8	52.1	50.9
75°	107.7	66.7	46.8	42.7	42.1
77.5°	84.9	47.4	36.9	34.5	33.4
80°	63.8	34.0	28.1	25.8	25.8
82.5°	44.5	22.8	19.3	18.1	18.1
85°	25.2	12.9	11.1	11.1	11.1
87.5°	9.4	4.7	4.7	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)