

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: P243233

Luminaire Tested: **S122RDR-H485D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243233
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-63)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122RDR-H485D930-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1292.0 lumens
Efficiency: N/A
Efficacy: 75.1 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

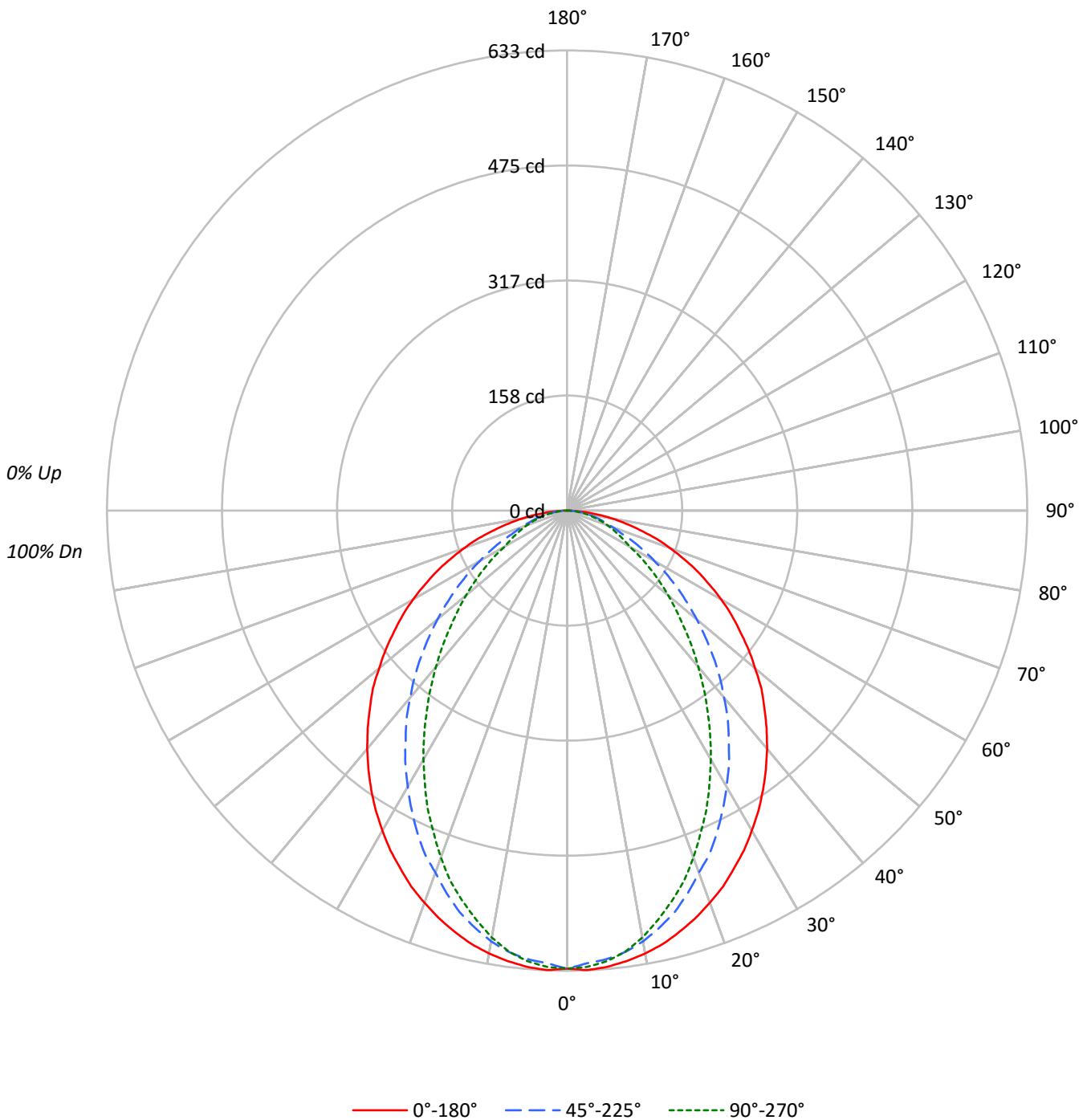
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	77	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°	12000	12000	12000
5°	12046	11847	11901
10°	11965	11638	11533
15°	11822	11276	10964
20°	11635	10743	10291
25°	11412	10258	9527
30°	11178	9647	8692
35°	10920	9011	7825
40°	10637	8352	6975
45°	10336	7658	6134
50°	10001	6893	5378
55°	9657	6137	4639
60°	9337	5280	3790
65°	8919	4457	3502
70°	8387	3692	3269
75°	7639	3363	3003
80°	6856	2984	2687
85°	5704	2491	2382



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	4.6
10°-20°	161.7	12.5
20°-30°	226.8	17.6
30°-40°	247.1	19.1
40°-50°	227.1	17.6
50°-60°	178.2	13.8
60°-70°	116.3	9.0
70°-80°	60.1	4.7
80°-90°	15.6	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
0°-30°	447.6	34.6
0°-40°	694.7	53.8
0°-60°	1100.0	85.1
0°-90°	1292.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1292.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	630	630	630	630	630	
5°	630	627	620	624	622	60
15°	600	592	572	560	556	169
25°	543	524	488	464	453	250
35°	470	439	388	352	336	294
45°	384	345	284	243	228	296
55°	291	247	185	150	140	261
65°	198	150	99	80	78	195
75°	104	65	46	42	41	111
85°	26	12	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°	630.0	630.0	630.0	630.0	630.0
2.5°	632.7	630.0	623.4	629.4	628.3
5°	630.0	626.7	619.6	624.0	622.4
7.5°	625.1	621.8	612.6	614.7	612.0
10°	618.6	614.2	601.7	599.5	596.3
12.5°	610.4	604.4	587.6	581.0	576.7
15°	599.5	592.5	571.8	560.4	556.0
17.5°	587.6	577.2	551.7	538.7	534.3
20°	574.0	562.0	530.0	516.4	507.7
22.5°	559.9	544.6	511.5	490.3	479.9
25°	543.0	524.0	488.1	464.2	453.3
27.5°	526.7	504.4	463.6	435.9	424.0
30°	508.2	483.8	438.6	406.6	395.2
32.5°	489.7	461.5	414.2	379.4	366.3
35°	469.6	438.6	387.5	351.7	336.5
37.5°	449.0	416.9	363.1	323.4	308.7
40°	427.8	391.9	335.9	294.6	280.5
42.5°	406.0	369.6	310.4	268.0	254.4
45°	383.7	344.6	284.3	243.0	227.7
47.5°	362.5	320.1	257.6	218.5	203.8
50°	337.5	295.7	232.6	193.0	181.5
52.5°	314.7	271.2	208.2	170.1	160.3
55°	290.8	247.3	184.8	150.0	139.7
57.5°	268.5	222.3	161.4	129.9	120.1
60°	245.1	198.4	138.6	109.8	99.5
62.5°	220.7	173.9	118.5	91.3	88.1
65°	197.9	150.0	98.9	80.4	77.7
67.5°	173.4	127.7	78.8	70.7	67.9
70°	150.6	106.0	66.3	60.3	58.7
72.5°	128.3	85.3	56.0	51.1	49.5
75°	103.8	64.7	45.7	41.9	40.8
77.5°	82.6	45.7	36.4	33.7	32.6
80°	62.5	33.2	27.2	25.5	24.5
82.5°	42.9	22.3	19.0	17.9	17.4
85°	26.1	12.5	11.4	10.9	10.9
87.5°	10.3	4.9	4.9	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)