

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: P243224

Luminaire Tested: **S122RDR-H485D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243224
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-H485D835-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1584.6 lumens
Efficiency: N/A
Efficacy: 92.1 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

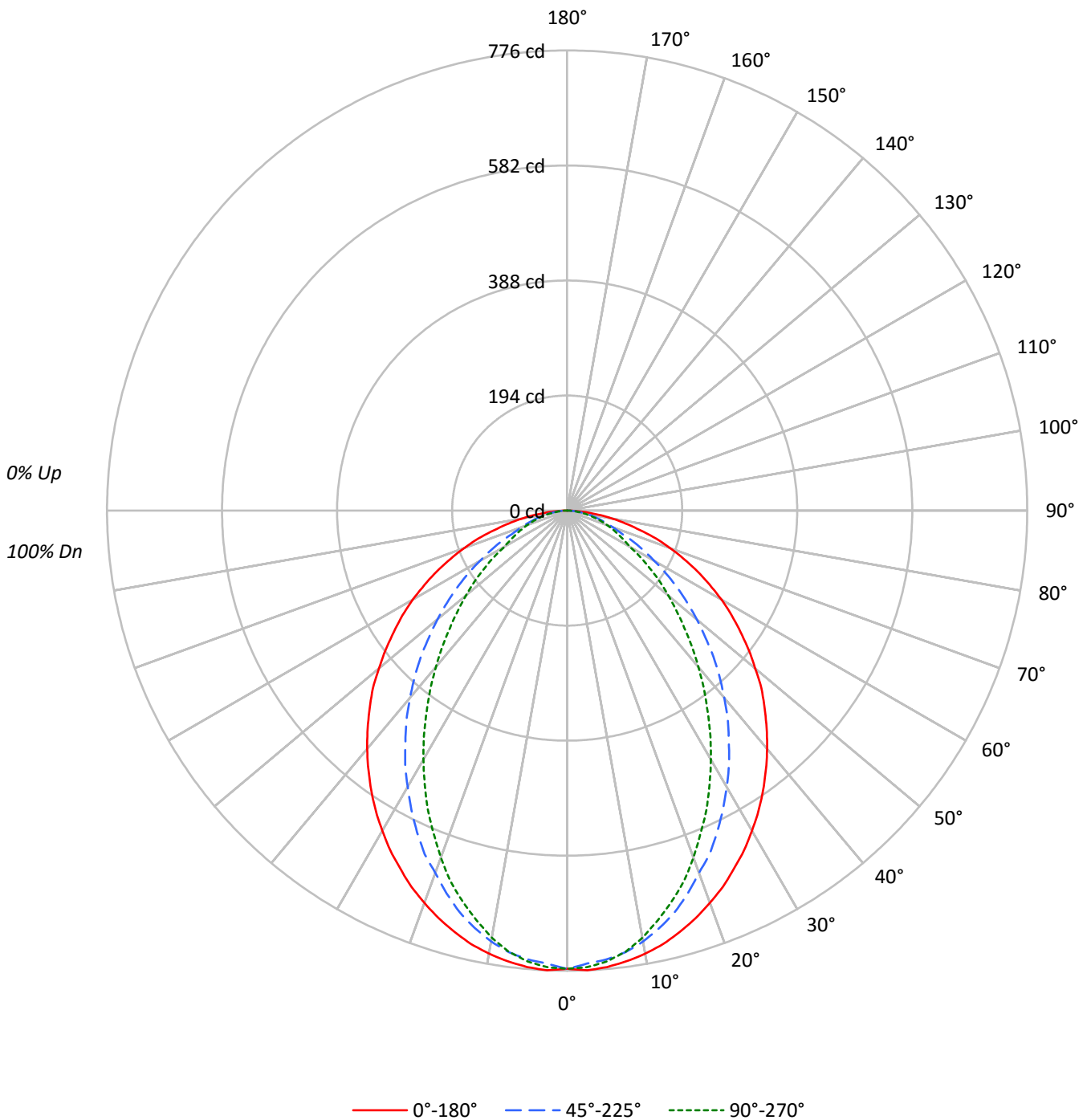
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	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°	14718	14718	14718
5°	14774	14532	14595
10°	14674	14274	14144
15°	14500	13829	13449
20°	14270	13176	12622
25°	13997	12583	11685
30°	13709	11833	10661
35°	13394	11052	9596
40°	13047	10244	8554
45°	12679	9393	7524
50°	12268	8454	6599
55°	11846	7528	5689
60°	11455	6476	4648
65°	10939	5467	4295
70°	10286	4528	4010
75°	9369	4121	3680
80°	8413	3653	3291
85°	6994	3060	2907



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	4.6
10°-20°	198.3	12.5
20°-30°	278.2	17.6
30°-40°	303.1	19.1
40°-50°	278.6	17.6
50°-60°	218.6	13.8
60°-70°	142.6	9.0
70°-80°	73.7	4.7
80°-90°	19.1	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°	548.9	34.6
0°-40°	852.0	53.8
0°-60°	1349.2	85.1
0°-90°	1584.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	773	773	773	773	773	
5°	773	769	760	765	763	73
15°	735	727	701	687	682	207
25°	666	643	599	569	556	307
35°	576	538	475	431	413	360
45°	471	423	349	298	279	363
55°	357	303	227	184	171	320
65°	243	184	121	99	95	240
75°	127	79	56	51	50	136
85°	32	15	14	13	13	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	772.7	772.7	772.7	772.7	772.7
2.5°	776.0	772.7	764.7	772.0	770.7
5°	772.7	768.7	760.0	765.3	763.3
7.5°	766.7	762.7	751.3	754.0	750.7
10°	758.7	753.3	738.0	735.3	731.3
12.5°	748.7	741.3	720.7	712.7	707.3
15°	735.3	726.7	701.3	687.3	682.0
17.5°	720.7	708.0	676.7	660.7	655.3
20°	704.0	689.3	650.0	633.3	622.7
22.5°	686.7	668.0	627.3	601.3	588.7
25°	666.0	642.7	598.7	569.3	556.0
27.5°	646.0	618.7	568.7	534.7	520.0
30°	623.3	593.3	538.0	498.7	484.7
32.5°	600.7	566.0	508.0	465.3	449.3
35°	576.0	538.0	475.3	431.3	412.7
37.5°	550.7	511.3	445.3	396.7	378.7
40°	524.7	480.7	412.0	361.3	344.0
42.5°	498.0	453.3	380.7	328.7	312.0
45°	470.7	422.7	348.7	298.0	279.3
47.5°	444.7	392.7	316.0	268.0	250.0
50°	414.0	362.7	285.3	236.7	222.7
52.5°	386.0	332.7	255.3	208.7	196.7
55°	356.7	303.3	226.7	184.0	171.3
57.5°	329.3	272.7	198.0	159.3	147.3
60°	300.7	243.3	170.0	134.7	122.0
62.5°	270.7	213.3	145.3	112.0	108.0
65°	242.7	184.0	121.3	98.7	95.3
67.5°	212.7	156.7	96.7	86.7	83.3
70°	184.7	130.0	81.3	74.0	72.0
72.5°	157.3	104.7	68.7	62.7	60.7
75°	127.3	79.3	56.0	51.3	50.0
77.5°	101.3	56.0	44.7	41.3	40.0
80°	76.7	40.7	33.3	31.3	30.0
82.5°	52.7	27.3	23.3	22.0	21.3
85°	32.0	15.3	14.0	13.3	13.3
87.5°	12.7	6.0	6.0	5.3	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)