

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: P242381

Luminaire Tested: **S122RDR-S1005D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242381
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-S1005D935-X4F0-XX-UDD-F-W
Description: DEFINE 2 REGRESSED 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: 2900.0 lumens
Efficiency: N/A
Efficacy: 70.6 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

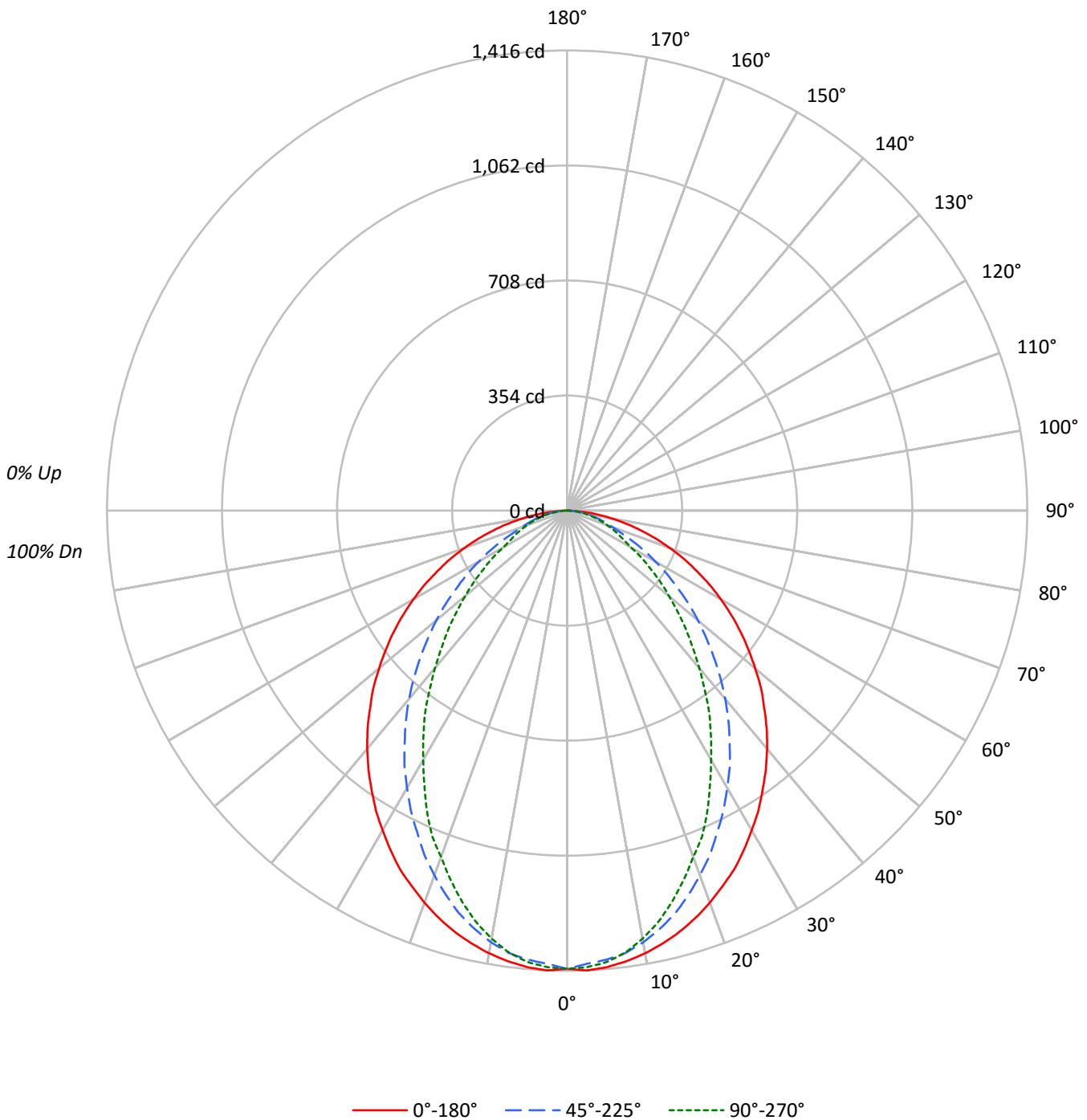
Input Watts (W): 41.1
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P242381

CATALOG NUMBER: S122RDR-S1005D935-X4F0-XX-UDD-F-W

Luminous Intensity Polar Plot





TEST NUMBER: P242381

CATALOG NUMBER: S122RDR-S1005D935-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	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°	26859	26859	26859
5°	26962	26522	26667
10°	26755	26088	25865
15°	26446	25314	24584
20°	26021	24211	22994
25°	25586	22957	21456
30°	24979	21667	19478
35°	24390	20267	17744
40°	23796	18815	15737
45°	23099	17186	13921
50°	22385	15542	12138
55°	21655	13772	10424
60°	20808	11909	8651
65°	19840	10006	7878
70°	18690	8242	7251
75°	17280	7514	6763
80°	15258	6724	6154
85°	11998	5289	5289



TEST NUMBER: P242381

CATALOG NUMBER: S122RDR-S1005D935-X4F0-XX-UDD-F-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	4.6
10°-20°	362.8	12.5
20°-30°	509.3	17.6
30°-40°	555.2	19.1
40°-50°	510.3	17.6
50°-60°	400.8	13.8
60°-70°	260.8	9.0
70°-80°	134.3	4.6
80°-90°	34.3	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°	1004.3	34.6
0°-40°	1559.5	53.8
0°-60°	2470.5	85.2
0°-90°	2900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1410	1410	1410	1410	1410	
5°	1410	1404	1387	1399	1395	134
15°	1341	1327	1284	1260	1247	378
25°	1217	1176	1092	1040	1021	560
35°	1049	984	872	791	763	657
45°	858	772	638	547	517	662
55°	652	552	415	338	314	583
65°	440	337	222	179	175	436
75°	235	146	102	93	92	248
85°	55	28	24	24	24	66
90°	0	0	0	0	0	



TEST NUMBER: P242381

CATALOG NUMBER: S122RDR-S1005D935-X4F0-XX-UDD-F-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1410.1	1410.1	1410.1	1410.1	1410.1
2.5°	1416.4	1410.1	1396.0	1408.8	1406.2
5°	1410.1	1403.7	1387.1	1398.6	1394.7
7.5°	1398.6	1390.9	1373.0	1378.2	1371.8
10°	1383.3	1374.3	1348.8	1345.0	1337.3
12.5°	1364.1	1352.6	1318.2	1310.5	1296.5
15°	1341.1	1327.1	1283.7	1259.5	1246.7
17.5°	1314.3	1293.9	1240.3	1212.3	1191.8
20°	1283.7	1258.2	1194.4	1162.5	1134.4
22.5°	1250.5	1221.2	1147.2	1103.8	1084.7
25°	1217.4	1176.5	1092.3	1040.0	1020.9
27.5°	1177.8	1134.4	1041.3	981.3	951.9
30°	1135.7	1087.2	985.1	920.0	885.6
32.5°	1094.9	1036.2	931.5	855.0	823.1
35°	1048.9	983.8	871.6	791.2	763.1
37.5°	1004.3	934.1	815.4	727.4	695.5
40°	957.0	880.5	756.7	666.1	632.9
42.5°	908.6	826.9	698.0	603.6	571.7
45°	857.5	772.0	638.0	547.4	516.8
47.5°	809.0	718.4	580.6	490.0	461.9
50°	755.4	664.8	524.5	436.4	409.6
52.5°	703.1	607.4	470.9	386.6	362.4
55°	652.1	552.5	414.7	338.2	313.9
57.5°	599.8	497.7	365.0	293.5	273.1
60°	546.2	444.1	312.6	247.6	227.1
62.5°	493.8	391.8	268.0	206.7	196.5
65°	440.2	336.9	222.0	178.6	174.8
67.5°	389.2	285.8	178.6	157.0	153.1
70°	335.6	236.1	148.0	135.3	130.2
72.5°	284.6	190.1	123.8	113.6	111.0
75°	234.8	145.5	102.1	93.2	91.9
77.5°	185.0	103.4	80.4	75.3	72.7
80°	139.1	74.0	61.3	56.1	56.1
82.5°	97.0	49.8	42.1	39.6	39.6
85°	54.9	28.1	24.2	24.2	24.2
87.5°	20.4	10.2	10.2	8.9	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)