

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: P334083

Luminaire Tested: **S123RDP-S1000D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334083
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDP-S1000D935-4F0-1E-UDD-F
Description: DEFINE 3 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3058.5 lumens
Efficiency: N/A
Efficacy: 87.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

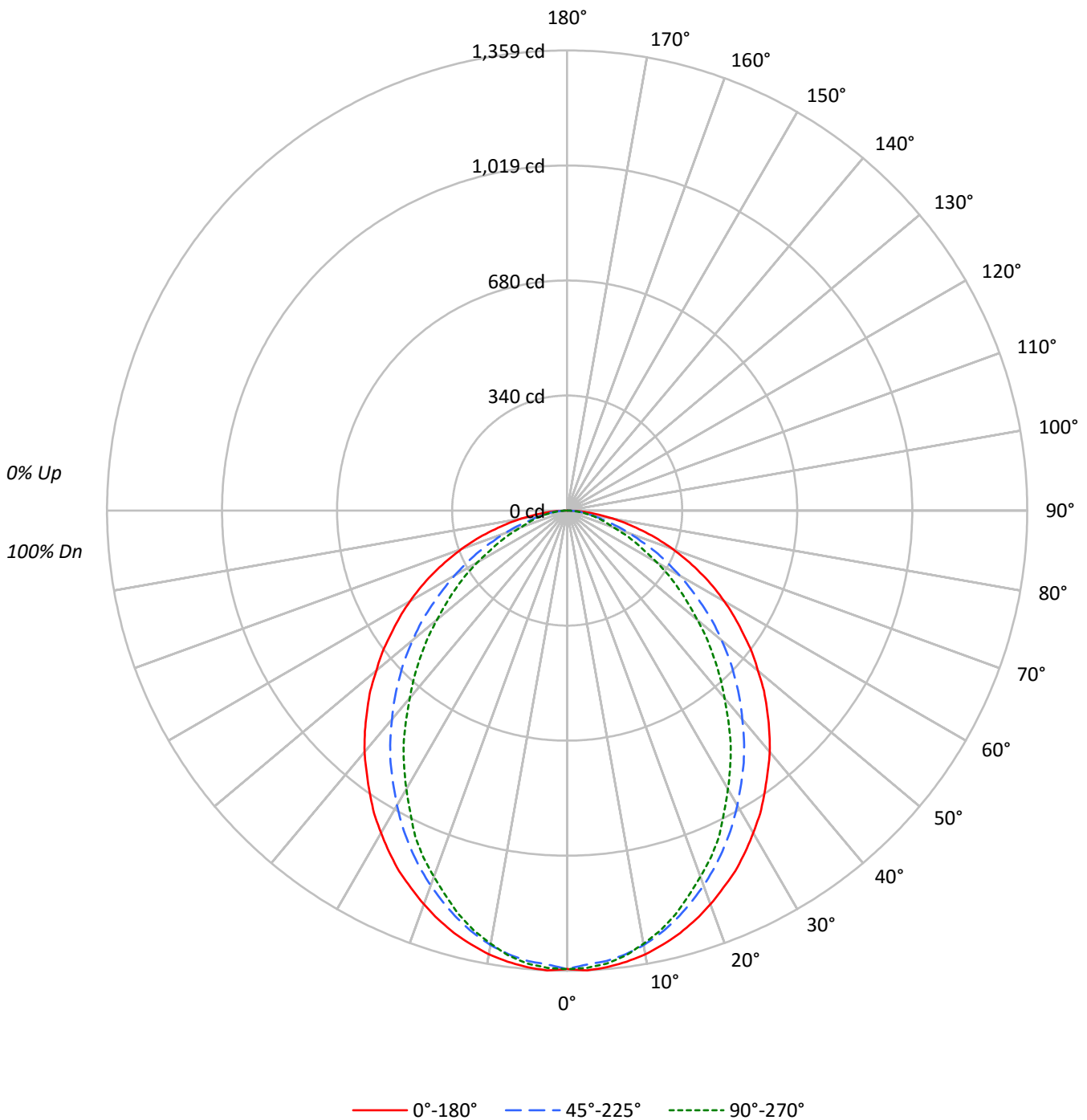
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14572	14572	14572
5°	14628	14427	14509
10°	14546	14245	14197
15°	14389	13912	13765
20°	14174	13495	13181
25°	13953	13028	12611
30°	13661	12488	11805
35°	13360	11946	11067
40°	13083	11308	10152
45°	12720	10680	9327
50°	12320	9965	8403
55°	11909	9149	7542
60°	11535	8273	6594
65°	11046	7328	5649
70°	10436	6150	4560
75°	9545	4841	4292
80°	8505	4289	3949
85°	7188	3792	3520



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.3	4.2
10°-20°	354.0	11.6
20°-30°	509.7	16.7
30°-40°	574.1	18.8
40°-50°	549.1	18.0
50°-60°	449.5	14.7
60°-70°	303.1	9.9
70°-80°	152.0	5.0
80°-90°	39.7	1.3
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°	991.1	32.4
0°-40°	1565.1	51.2
0°-60°	2563.7	83.8
0°-90°	3058.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3058.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1354	1348	1335	1345	1343	128
15°	1291	1279	1248	1243	1235	364
25°	1175	1147	1097	1074	1062	540
35°	1017	977	909	862	842	636
45°	836	786	702	639	613	645
55°	635	581	488	424	402	569
65°	434	373	288	234	222	429
75°	230	177	116	105	103	244
85°	58	34	31	28	28	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1353.8	1353.8	1353.8	1353.8	1353.8
2.5°	1359.3	1354.9	1341.7	1353.8	1351.6
5°	1353.8	1348.3	1335.2	1345.0	1342.8
7.5°	1343.9	1338.4	1322.0	1328.6	1325.3
10°	1330.8	1323.1	1303.3	1304.4	1298.9
12.5°	1312.1	1303.3	1278.1	1277.0	1270.4
15°	1291.2	1279.2	1248.4	1242.9	1235.2
17.5°	1266.0	1252.8	1214.4	1203.4	1192.4
20°	1237.4	1219.9	1178.1	1163.9	1150.7
22.5°	1205.6	1184.7	1139.7	1121.0	1109.0
25°	1174.8	1147.4	1096.9	1073.8	1061.8
27.5°	1137.5	1107.9	1053.0	1022.2	1003.6
30°	1099.1	1066.1	1004.7	967.3	949.8
32.5°	1060.7	1022.2	956.3	914.6	896.0
35°	1016.7	977.2	909.1	861.9	842.2
37.5°	972.8	930.0	858.6	805.9	781.8
40°	931.1	882.8	804.8	747.7	722.5
42.5°	883.9	835.6	754.3	690.6	668.7
45°	835.6	786.2	701.6	639.0	612.7
47.5°	788.4	733.5	650.0	581.9	558.9
50°	735.7	684.0	595.1	527.0	501.8
52.5°	688.4	631.3	543.5	472.1	450.2
55°	634.6	580.8	487.5	423.8	401.9
57.5°	586.3	528.1	433.7	373.3	354.7
60°	535.8	475.4	384.3	325.0	306.3
62.5°	485.3	424.9	333.8	278.9	259.1
65°	433.7	373.3	287.7	233.9	221.8
67.5°	382.1	320.6	237.2	196.5	183.4
70°	331.6	272.3	195.4	157.0	144.9
72.5°	281.1	222.9	154.8	125.2	121.9
75°	229.5	176.8	116.4	105.4	103.2
77.5°	182.3	134.0	91.1	84.5	82.3
80°	137.2	92.2	69.2	65.9	63.7
82.5°	94.4	57.1	49.4	46.1	46.1
85°	58.2	34.0	30.7	28.5	28.5
87.5°	26.4	14.3	14.3	13.2	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)