

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: P243561

Luminaire Tested: **S124RDR-H1195D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243561
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-65)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-H1195D927-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3560.4 lumens
Efficiency: N/A
Efficacy: 94.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.25
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

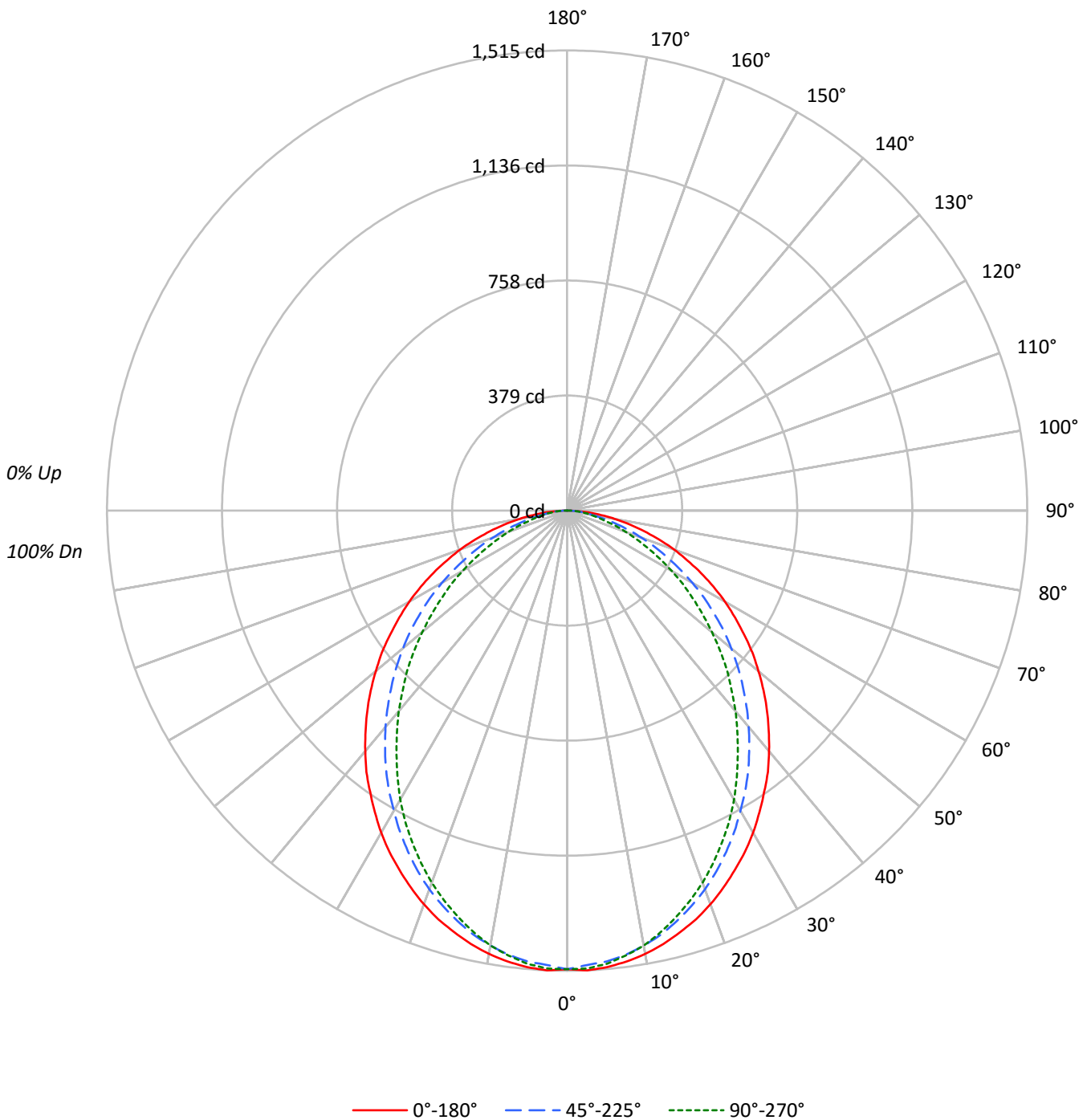
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13421	13421	13421
5°	13463	13293	13363
10°	13377	13126	13126
15°	13228	12869	12746
20°	13049	12554	12332
25°	12809	12153	11825
30°	12569	11711	11277
35°	12273	11281	10629
40°	11999	10796	10008
45°	11696	10282	9356
50°	11373	9753	8599
55°	11017	9153	7840
60°	10677	8459	7052
65°	10218	7641	6165
70°	9730	6747	5356
75°	8995	5626	4362
80°	8216	4392	3993
85°	7272	4202	3978



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.0	4.0
10°-20°	396.5	11.1
20°-30°	575.0	16.2
30°-40°	655.4	18.4
40°-50°	637.7	17.9
50°-60°	535.7	15.0
60°-70°	373.2	10.5
70°-80°	192.7	5.4
80°-90°	52.1	1.5
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°	1113.6	31.3
0°-40°	1769.0	49.7
0°-60°	2942.4	82.6
0°-90°	3560.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3560.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1510	1510	1510	1510	1510	
5°	1509	1504	1490	1501	1498	143
15°	1437	1426	1398	1396	1385	405
25°	1306	1281	1239	1221	1206	602
35°	1131	1096	1040	1001	980	708
45°	930	886	818	766	744	718
55°	711	665	591	530	506	637
65°	486	439	363	311	293	481
75°	262	222	164	137	127	279
85°	71	46	41	39	39	82
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1509.9	1509.9	1509.9	1509.9	1509.9
2.5°	1515.4	1511.0	1497.6	1509.9	1508.8
5°	1508.8	1504.3	1489.8	1501.0	1497.6
7.5°	1497.6	1492.0	1475.3	1483.1	1477.6
10°	1482.0	1476.4	1454.2	1459.7	1454.2
12.5°	1462.0	1454.2	1429.6	1430.8	1421.8
15°	1437.4	1426.3	1398.4	1396.2	1385.1
17.5°	1410.7	1396.2	1363.9	1358.3	1346.1
20°	1379.5	1361.7	1327.1	1314.9	1303.7
22.5°	1343.8	1322.7	1284.8	1270.3	1255.8
25°	1306.0	1281.4	1239.1	1221.3	1205.7
27.5°	1267.0	1238.0	1192.3	1170.0	1154.4
30°	1224.6	1191.2	1141.0	1115.4	1098.7
32.5°	1177.8	1144.4	1092.0	1060.8	1039.6
35°	1131.0	1096.5	1039.6	1000.6	979.5
37.5°	1085.3	1046.3	985.0	944.9	920.4
40°	1034.1	992.8	930.4	884.8	862.5
42.5°	982.8	940.5	873.6	825.7	801.2
45°	930.4	885.9	817.9	765.5	744.3
47.5°	877.0	832.4	762.2	707.6	683.1
50°	822.4	777.8	705.3	645.2	621.8
52.5°	768.9	722.1	649.6	588.3	563.8
55°	710.9	665.2	590.6	530.4	505.9
57.5°	655.2	607.3	534.9	473.6	453.5
60°	600.6	552.7	475.8	416.7	396.7
62.5°	542.7	494.7	419.0	362.1	344.3
65°	485.8	439.0	363.3	310.9	293.1
67.5°	427.9	385.5	312.0	261.9	247.4
70°	374.4	326.5	259.6	216.2	206.1
72.5°	317.6	275.2	210.6	174.9	167.1
75°	261.9	221.7	163.8	137.1	127.0
77.5°	210.6	171.6	123.7	101.4	101.4
80°	160.5	125.9	85.8	80.2	78.0
82.5°	113.7	81.3	63.5	59.1	57.9
85°	71.3	45.7	41.2	39.0	39.0
87.5°	34.5	21.2	21.2	20.1	20.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)