

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: P242896

Luminaire Tested: **S125RDR-S1090D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242896
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125RDR-S1090D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 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: 3434.6 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

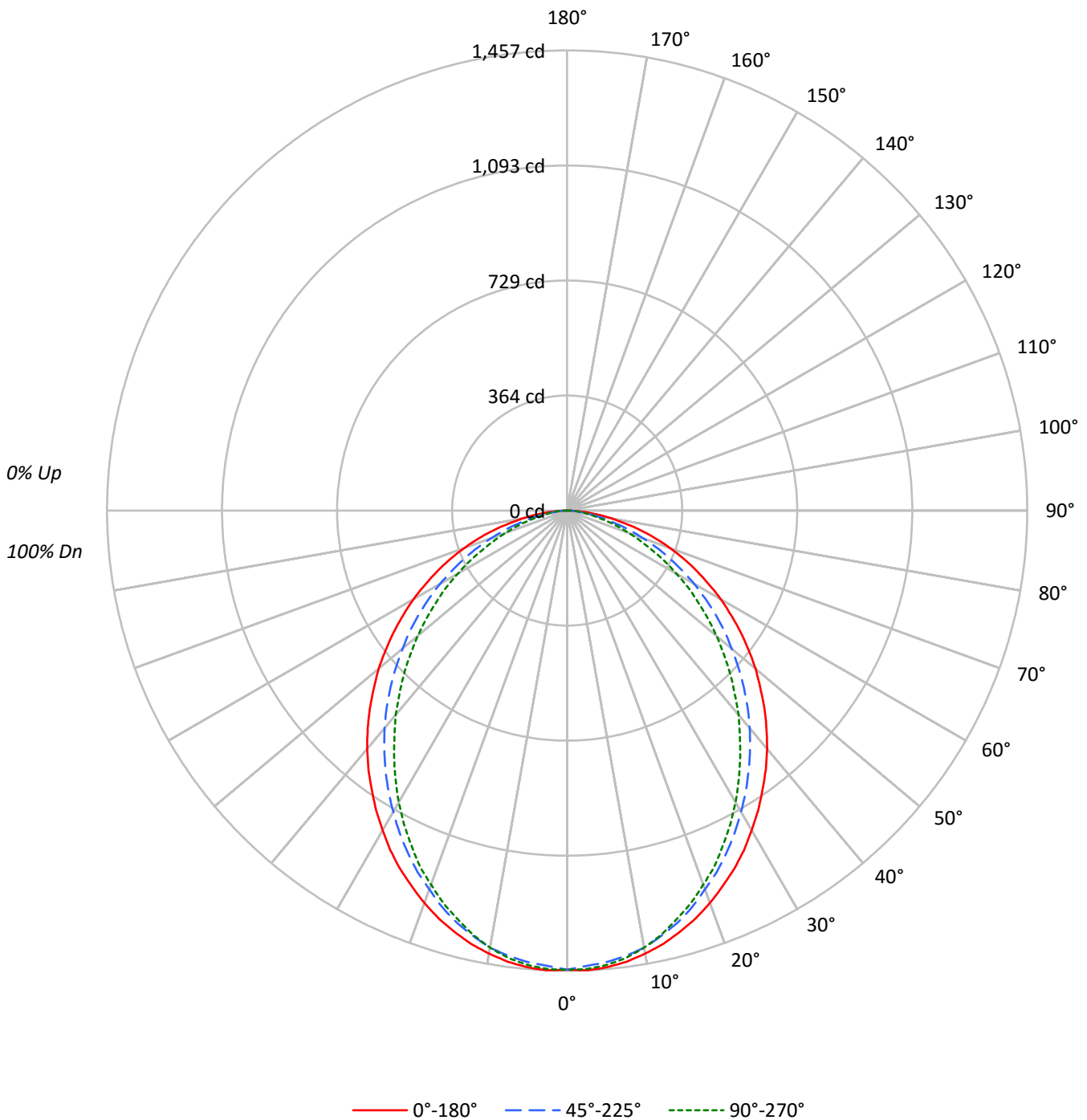
Input Watts (W): 34.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	101	97	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	92	86	80	98	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	48	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	29
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°	10332	10332	10332
5°	10356	10239	10301
10°	10278	10143	10143
15°	10156	9937	9856
20°	9999	9650	9534
25°	9816	9368	9162
30°	9588	9038	8749
35°	9355	8698	8288
40°	9138	8344	7834
45°	8873	7947	7339
50°	8608	7515	6823
55°	8300	7101	6272
60°	7991	6601	5682
65°	7627	6019	5005
70°	7211	5293	4312
75°	6634	4462	3589
80°	5841	3504	3012
85°	4925	2862	2683



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	4.0
10°-20°	382.4	11.1
20°-30°	554.4	16.1
30°-40°	631.6	18.4
40°-50°	615.7	17.9
50°-60°	518.1	15.1
60°-70°	363.1	10.6
70°-80°	186.1	5.4
80°-90°	46.4	1.4
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°	1073.6	31.3
0°-40°	1705.2	49.6
0°-60°	2839.0	82.7
0°-90°	3434.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3434.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1454	1454	1454	1454	1454	
5°	1452	1447	1435	1446	1444	138
15°	1380	1374	1350	1349	1340	389
25°	1252	1235	1195	1180	1168	576
35°	1078	1052	1002	971	955	675
45°	883	851	791	747	730	681
55°	670	635	573	524	506	599
65°	454	416	358	314	298	449
75°	242	209	162	138	131	255
85°	60	41	35	34	33	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1453.7	1453.7	1453.7	1453.7	1453.7
2.5°	1457.0	1453.7	1442.8	1453.7	1452.6
5°	1451.5	1447.1	1435.1	1446.0	1443.9
7.5°	1440.6	1436.2	1421.9	1430.7	1428.5
10°	1424.1	1420.8	1405.4	1408.7	1405.4
12.5°	1405.4	1401.0	1379.1	1381.3	1375.8
15°	1380.2	1373.6	1350.5	1349.4	1339.5
17.5°	1353.8	1343.9	1316.5	1311.0	1303.3
20°	1322.0	1311.0	1275.9	1270.4	1260.5
22.5°	1286.8	1275.9	1238.5	1226.5	1218.8
25°	1251.7	1235.2	1194.6	1180.3	1168.3
27.5°	1212.2	1192.4	1149.6	1130.9	1118.8
30°	1168.3	1147.4	1101.3	1076.0	1066.1
32.5°	1125.4	1100.2	1053.0	1024.4	1011.2
35°	1078.2	1051.9	1002.5	970.6	955.2
37.5°	1033.2	1001.4	950.9	913.5	898.2
40°	984.9	952.0	899.3	857.5	844.4
42.5°	934.4	900.3	845.4	805.9	785.1
45°	882.8	850.9	790.6	746.6	730.2
47.5°	829.0	796.0	735.7	690.6	672.0
50°	778.5	742.2	679.7	633.5	617.1
52.5°	723.6	686.2	628.0	577.5	561.1
55°	669.8	634.6	573.1	523.7	506.2
57.5°	614.9	577.5	518.2	469.9	454.6
60°	562.2	523.7	464.4	416.1	399.7
62.5°	506.2	469.9	409.5	365.6	349.2
65°	453.5	416.1	357.9	314.0	297.6
67.5°	400.8	363.4	307.4	265.7	252.5
70°	347.0	309.6	254.7	220.7	207.5
72.5°	294.3	258.0	207.5	176.8	169.1
75°	241.6	208.6	162.5	138.3	130.7
77.5°	187.8	161.4	123.0	104.3	97.7
80°	142.7	116.4	85.6	75.8	73.6
82.5°	98.8	75.8	57.1	53.8	52.7
85°	60.4	40.6	35.1	34.0	32.9
87.5°	25.3	17.6	16.5	16.5	15.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)