

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: P243653

Luminaire Tested: **S125DR-H1090D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-51)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H1090D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3647.5 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

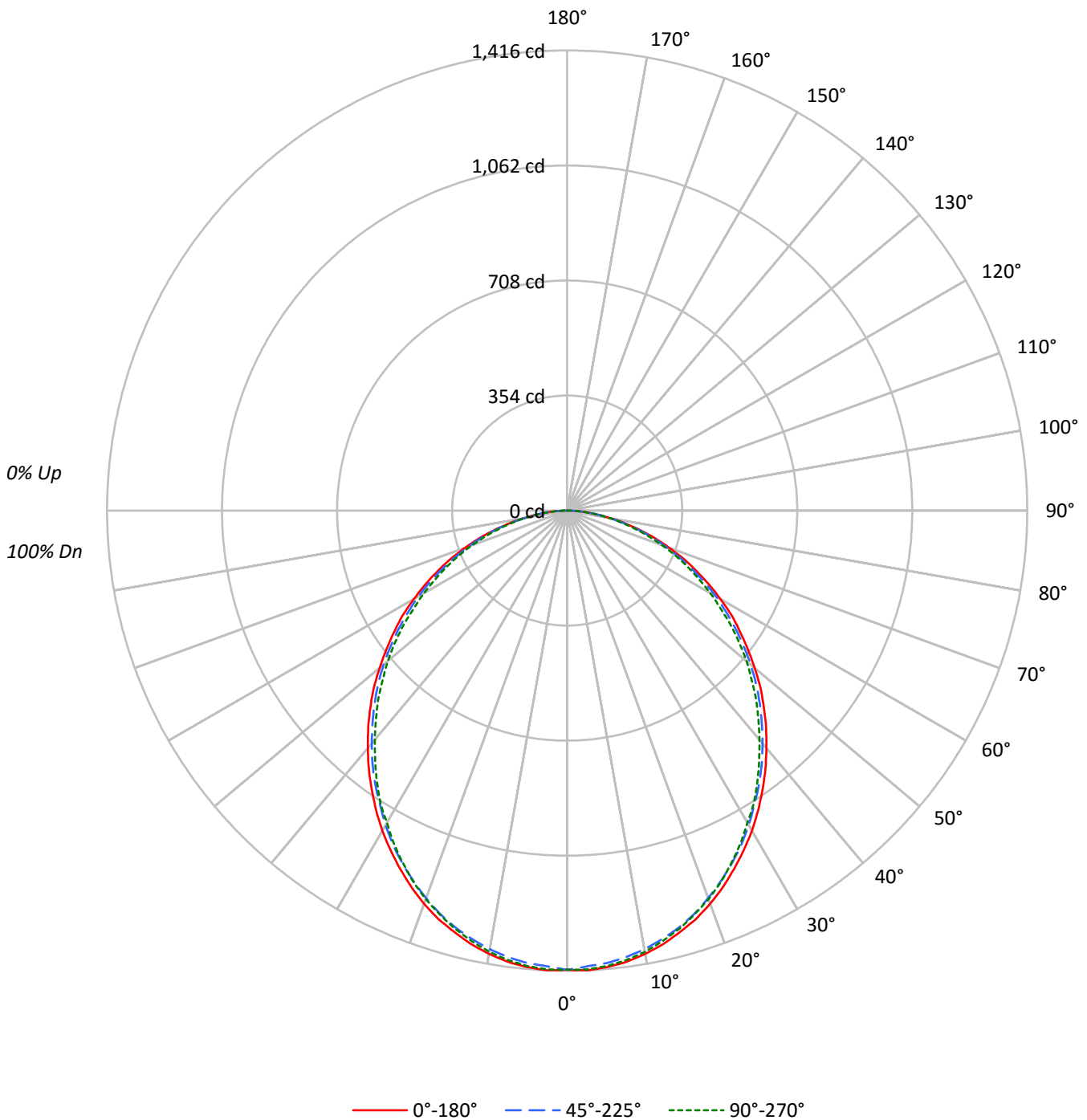
Input Watts (W): 31.5
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10043	10043	10043
5°	10060	9970	10037
10°	9996	9892	9952
15°	9879	9772	9802
20°	9739	9598	9621
25°	9537	9399	9382
30°	9334	9172	9104
35°	9094	8932	8851
40°	8849	8676	8541
45°	8607	8420	8263
50°	8323	8150	7967
55°	8042	7824	7618
60°	7737	7515	7251
65°	7374	7114	6870
70°	6916	6656	6442
75°	6376	6179	5893
80°	5558	5517	5390
85°	4819	4819	4567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	3.7
10°-20°	376.2	10.3
20°-30°	554.6	15.2
30°-40°	645.8	17.7
40°-50°	647.1	17.7
50°-60°	565.8	15.5
60°-70°	419.9	11.5
70°-80°	238.1	6.5
80°-90°	66.8	1.8
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°	1064.1	29.2
0°-40°	1709.9	46.9
0°-60°	2922.8	80.1
0°-90°	3647.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3647.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1413	1413	1413	1413	1413	
5°	1410	1408	1398	1408	1407	134
15°	1343	1340	1328	1335	1332	379
25°	1216	1212	1198	1202	1196	560
35°	1048	1042	1030	1023	1020	656
45°	856	854	838	825	822	660
55°	649	648	631	618	615	581
65°	438	435	423	414	408	435
75°	232	228	225	221	215	246
85°	59	59	59	57	56	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1413.1	1413.1	1413.1	1413.1	1413.1
2.5°	1416.2	1414.1	1403.7	1414.1	1413.1
5°	1410.0	1407.9	1397.5	1407.9	1406.8
7.5°	1400.6	1397.5	1386.1	1396.5	1394.4
10°	1385.1	1383.0	1370.6	1378.9	1378.9
12.5°	1366.4	1363.3	1350.9	1358.1	1357.1
15°	1342.6	1340.5	1328.1	1335.3	1332.2
17.5°	1317.7	1312.5	1301.1	1307.3	1303.2
20°	1287.6	1283.5	1269.0	1274.1	1272.1
22.5°	1253.4	1248.2	1234.7	1237.9	1236.8
25°	1216.1	1211.9	1198.5	1201.6	1196.4
27.5°	1177.7	1172.5	1160.1	1160.1	1154.9
30°	1137.3	1132.1	1117.6	1117.6	1109.3
32.5°	1093.8	1089.6	1072.0	1070.9	1068.9
35°	1048.1	1041.9	1029.5	1023.3	1020.1
37.5°	1002.5	997.3	983.9	975.6	970.4
40°	953.8	950.7	935.1	927.9	920.6
42.5°	906.1	903.0	886.4	874.0	870.9
45°	856.3	854.3	837.7	825.2	822.1
47.5°	806.6	804.5	787.9	774.4	769.3
50°	752.7	752.7	737.1	723.6	720.5
52.5°	700.8	699.8	684.2	670.8	667.7
55°	649.0	648.0	631.4	617.9	614.8
57.5°	600.3	594.0	579.5	569.2	558.8
60°	544.3	541.2	528.7	515.3	510.1
62.5°	492.4	488.3	475.9	464.5	457.2
65°	438.5	435.4	423.0	413.7	408.5
67.5°	387.7	383.6	371.1	363.9	359.7
70°	332.8	329.7	320.3	311.0	310.0
72.5°	284.1	279.9	274.7	266.4	262.3
75°	232.2	228.1	225.0	220.8	214.6
77.5°	182.5	180.4	178.3	175.2	172.1
80°	135.8	135.8	134.8	132.7	131.7
82.5°	96.4	97.5	94.3	92.3	92.3
85°	59.1	59.1	59.1	57.0	56.0
87.5°	29.0	25.9	25.9	23.8	23.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)