

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: P243718

Luminaire Tested: **S125DR-H1270D930-X4F0-XX-UDD-D-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-56)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H1270D930-X4F0-XX-UDD-D-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN DROP DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3852.8 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.21 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.39' x L: 3.88' x H: 0.08')
CIE Type: Direct

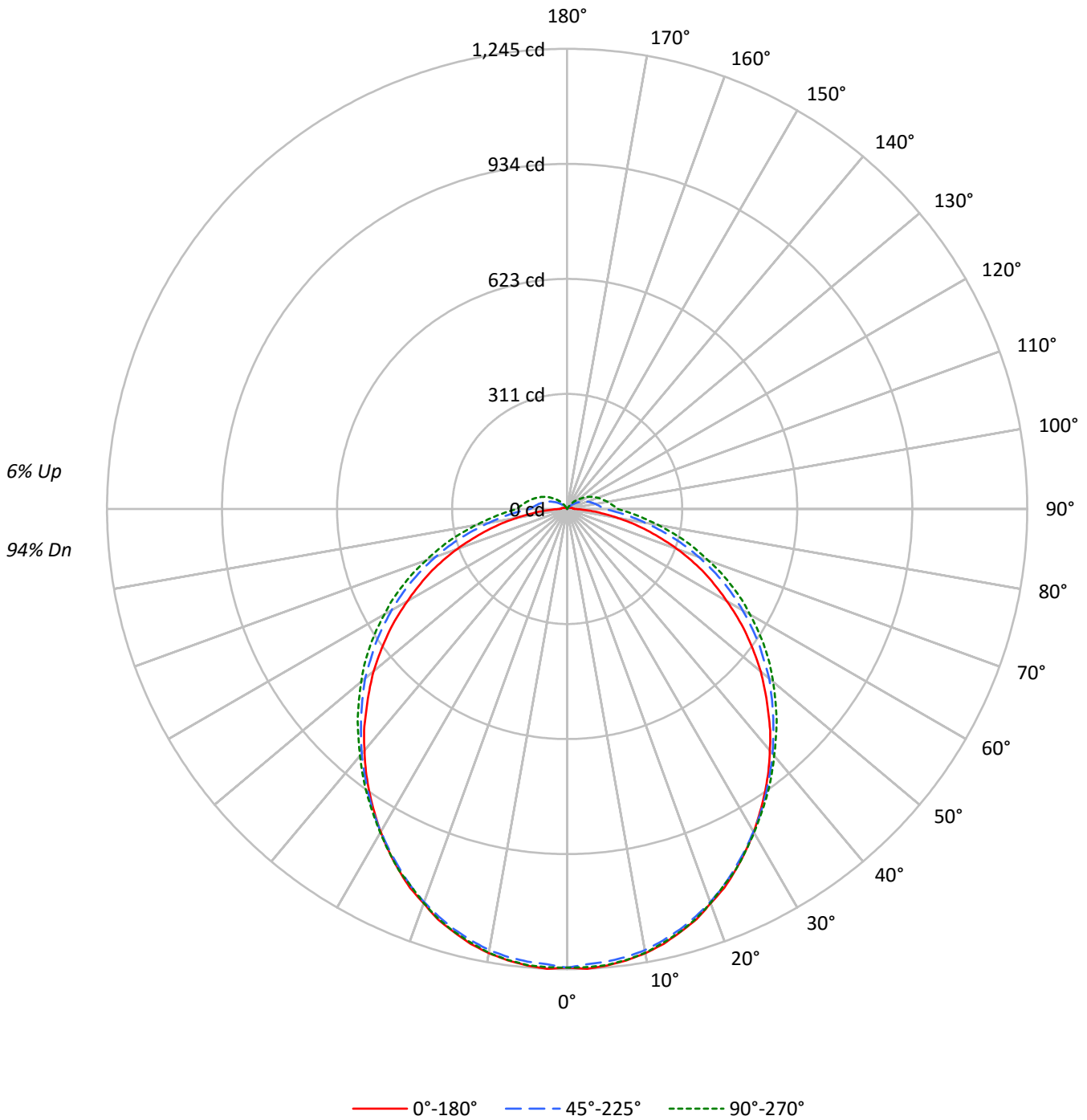
Input Watts (W): 37.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243718

CATALOG NUMBER: S125DR-H1270D930-X4F0-XX-UDD-D-W

Luminous Intensity Polar Plot





TEST NUMBER: P243718

CATALOG NUMBER: S125DR-H1270D930-X4F0-XX-UDD-D-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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94
1	106	101	96	92	103	98	94	90	93	89	86	88	85	82	83	81	79	76
2	96	88	80	74	93	85	78	73	81	75	70	76	72	68	72	69	65	63
3	88	77	68	61	84	75	67	60	71	64	59	67	61	57	64	59	55	53
4	80	68	59	52	77	66	58	51	63	55	50	60	53	48	57	51	47	45
5	74	60	51	44	71	59	50	44	56	49	43	53	47	42	51	45	41	39
6	68	54	45	39	66	53	45	38	51	43	38	48	42	37	46	40	36	34
7	63	49	40	34	61	48	40	34	46	39	33	44	37	33	42	36	32	30
8	59	45	36	30	57	44	36	30	42	35	30	40	34	29	39	33	29	27
9	55	41	33	27	53	40	33	27	39	32	27	37	31	26	36	30	26	24
10	51	38	30	25	50	37	30	25	36	29	24	35	28	24	33	28	23	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8820	8820	8820
5°	8828	8646	8675
10°	8773	8500	8479
15°	8667	8297	8238
20°	8520	8073	7961
25°	8370	7813	7689
30°	8181	7549	7391
35°	7979	7292	7125
40°	7776	7042	6859
45°	7561	6792	6641
50°	7369	6585	6411
55°	7128	6330	6198
60°	6837	6053	5929
65°	6601	5761	5664
70°	6210	5401	5320
75°	5684	4979	5016
80°	5063	4523	4632
85°	4504	4228	4408



TEST NUMBER: P243718

CATALOG NUMBER: S125DR-H1270D930-X4F0-XX-UDD-D-W

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	3.0
10°-20°	333.6	8.7
20°-30°	496.6	12.9
30°-40°	588.3	15.3
40°-50°	608.7	15.8
50°-60°	561.4	14.6
60°-70°	453.7	11.8
70°-80°	303.2	7.9
80°-90°	156.4	4.1
90°-100°	87.7	2.3
100°-110°	65.1	1.7
110°-120°	43.3	1.1
120°-130°	24.2	0.6
130°-140°	10.9	0.3
140°-150°	2.3	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	947.6	24.6
0°-40°	1535.9	39.9
0°-60°	2706.0	70.2
0°-90°	3619.3	93.9
90°-120°	196.1	5.1
90°-150°	233.5	6.1
90°-180°	234.0	6.1
0°-180°	3852.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1240	1239	1229	1239	1239	118
15°	1185	1188	1178	1185	1184	334
25°	1078	1083	1073	1079	1078	496
35°	934	940	938	943	944	584
45°	768	781	788	800	802	594
55°	593	611	632	647	652	530
65°	411	435	464	485	491	405
75°	224	257	294	319	328	238
85°	69	108	150	177	186	71
90°	20	57	100	127	136	14
95°	16	48	88	115	123	13
105°	12	31	68	92	100	12
115°	8	16	47	69	77	8
125°	5	5	28	45	53	4
135°	2	2	10	26	31	2
145°	1	0	0	7	10	1
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P243718

CATALOG NUMBER: S125DR-H1270D930-X4F0-XX-UDD-D-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.9	1240.9	1240.9	1240.9	1240.9
2.5°	1245.4	1242.0	1232.8	1242.0	1240.9
5°	1239.7	1238.6	1229.4	1238.6	1238.6
7.5°	1231.7	1230.5	1222.5	1231.7	1230.5
10°	1220.2	1220.2	1212.2	1219.1	1219.1
12.5°	1205.3	1205.3	1196.1	1204.2	1201.9
15°	1184.7	1188.1	1177.8	1184.7	1183.5
17.5°	1164.0	1164.0	1156.0	1161.7	1161.7
20°	1135.3	1139.9	1131.9	1137.6	1134.2
22.5°	1110.1	1112.4	1104.4	1110.1	1104.4
25°	1078.0	1082.6	1073.4	1079.2	1078.0
27.5°	1044.7	1048.2	1041.3	1048.2	1044.7
30°	1009.2	1012.6	1008.0	1012.6	1011.5
32.5°	971.4	978.2	974.8	978.2	977.1
35°	933.5	940.4	938.1	942.7	943.8
37.5°	894.5	901.4	901.4	907.1	908.3
40°	853.2	862.4	864.7	872.7	871.6
42.5°	813.1	822.3	825.7	836.0	836.0
45°	768.4	781.0	787.9	800.5	801.6
47.5°	725.9	739.7	750.0	761.5	763.8
50°	683.5	696.1	713.3	724.8	727.1
52.5°	637.6	653.7	670.9	686.9	691.5
55°	592.9	611.3	631.9	646.8	652.5
57.5°	547.0	566.5	589.5	607.8	612.4
60°	498.9	521.8	548.2	566.5	571.1
62.5°	454.1	479.4	506.9	526.4	533.3
65°	410.6	434.6	464.5	485.1	490.8
67.5°	363.5	389.9	420.9	443.8	449.6
70°	316.5	345.2	378.4	400.2	406.0
72.5°	268.4	300.5	336.0	360.1	367.0
75°	223.6	256.9	293.6	318.8	328.0
77.5°	181.2	215.6	252.3	278.7	286.7
80°	138.8	174.3	214.5	242.0	250.0
82.5°	100.9	138.8	180.0	207.6	215.6
85°	68.8	107.8	150.2	176.6	185.8
87.5°	42.4	80.3	123.9	150.2	159.4
90°	19.5	57.3	99.8	127.3	136.5
92.5°	17.2	52.8	94.0	121.6	129.6
95°	16.1	48.2	88.3	114.7	122.7
97.5°	14.9	43.6	82.6	108.9	117.0
100°	13.8	39.0	78.0	103.2	111.2
102.5°	12.6	35.6	72.2	97.5	104.4
105°	11.5	31.0	67.7	91.7	99.8
107.5°	10.3	26.4	63.1	86.0	94.0
110°	9.2	22.9	57.3	80.3	88.3



TEST NUMBER: P243718

CATALOG NUMBER: S125DR-H1270D930-X4F0-XX-UDD-D-W

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.0	19.5	52.8	74.5	82.6
115°	8.0	16.1	47.0	68.8	76.8
117.5°	6.9	12.6	41.3	63.1	71.1
120°	5.7	9.2	36.7	57.3	65.4
122.5°	5.7	6.9	32.1	51.6	59.6
125°	4.6	4.6	27.5	44.7	52.8
127.5°	4.6	3.4	22.9	40.1	45.9
130°	3.4	2.3	19.5	35.6	41.3
132.5°	3.4	2.3	14.9	31.0	36.7
135°	2.3	2.3	10.3	26.4	31.0
137.5°	2.3	1.1	6.9	20.6	26.4
140°	1.1	1.1	2.3	16.1	20.6
142.5°	1.1	1.1	1.1	11.5	16.1
145°	1.1	0.0	0.0	6.9	10.3
147.5°	1.1	0.0	0.0	2.3	5.7
150°	0.0	0.0	0.0	0.0	1.1
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)