

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: P243695

Luminaire Tested: **S125DR-H375D927-X4F0-XX-UDD-D-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243695
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-H375D927-X4F0-XX-UDD-D-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN DROP 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: 1114.1 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.22 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.39' x L: 3.88' x H: 0.08')
CIE Type: Direct

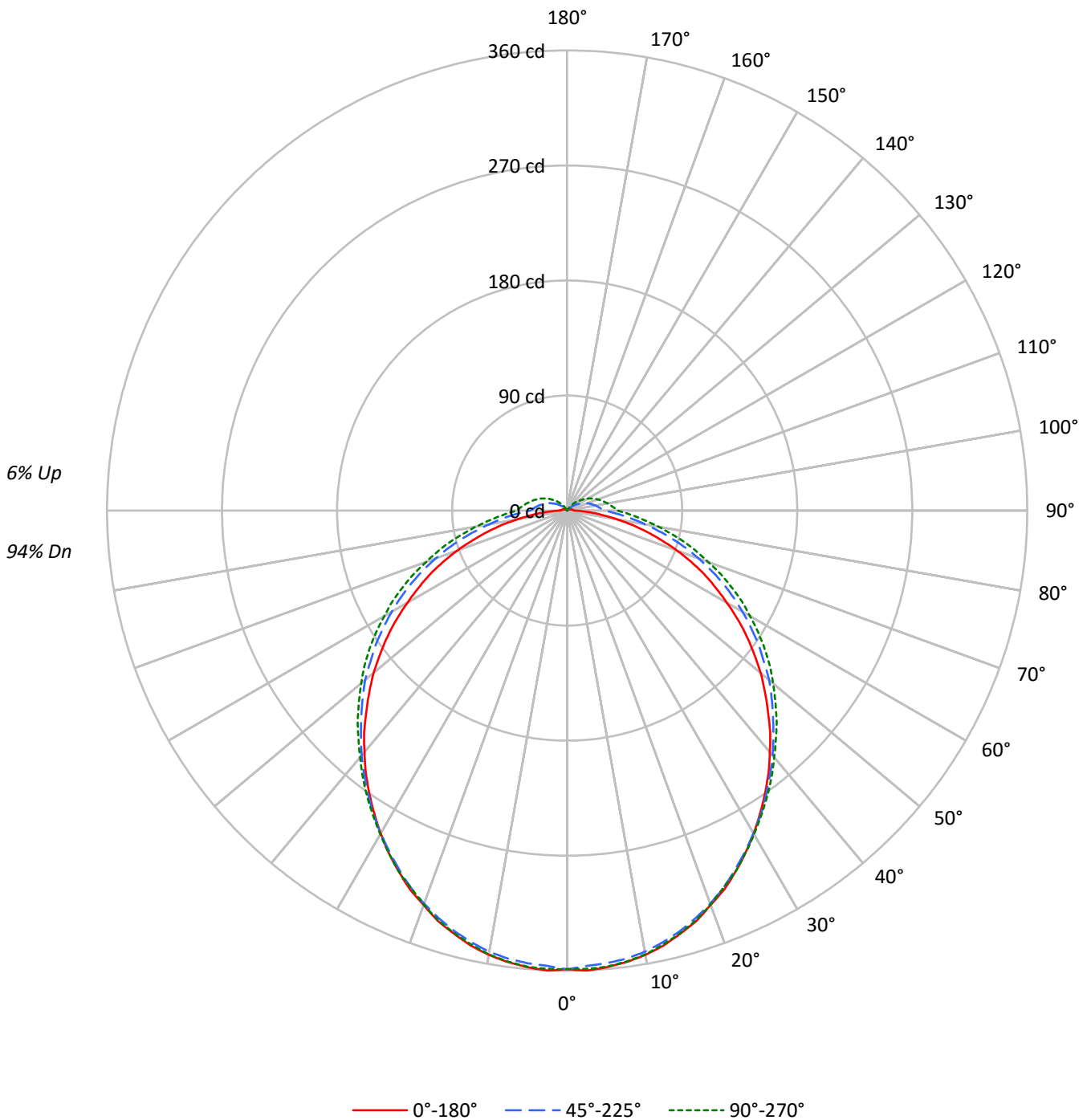
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P243695

CATALOG NUMBER: S125DR-H375D927-X4F0-XX-UDD-D-W

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	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°	2550	2550	2550
5°	2553	2500	2509
10°	2537	2458	2452
15°	2506	2399	2382
20°	2464	2335	2302
25°	2420	2259	2223
30°	2365	2183	2137
35°	2307	2109	2060
40°	2248	2037	1983
45°	2186	1964	1920
50°	2131	1904	1854
55°	2062	1830	1792
60°	1978	1750	1715
65°	1908	1666	1638
70°	1795	1561	1538
75°	1645	1440	1450
80°	1463	1307	1340
85°	1303	1222	1274



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.0	3.0
10°-20°	96.5	8.7
20°-30°	143.6	12.9
30°-40°	170.1	15.3
40°-50°	176.0	15.8
50°-60°	162.4	14.6
60°-70°	131.2	11.8
70°-80°	87.7	7.9
80°-90°	45.2	4.1
90°-100°	25.4	2.3
100°-110°	18.8	1.7
110°-120°	12.5	1.1
120°-130°	7.0	0.6
130°-140°	3.2	0.3
140°-150°	0.7	0.1
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	274.0	24.6
0°-40°	444.1	39.9
0°-60°	782.5	70.2
0°-90°	1046.6	93.9
90°-120°	56.7	5.1
90°-150°	67.5	6.1
90°-180°	68.0	6.1
0°-180°	1114.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	359	359	359	359	359	
5°	358	358	356	358	358	34
15°	343	344	341	343	342	97
25°	312	313	310	312	312	144
35°	270	272	271	273	273	169
45°	222	226	228	232	232	172
55°	172	177	183	187	189	153
65°	119	126	134	140	142	117
75°	65	74	85	92	95	69
85°	20	31	43	51	54	20
90°	6	17	29	37	40	4
95°	5	14	26	33	36	4
105°	3	9	20	26	29	4
115°	2	5	14	20	22	2
125°	1	1	8	13	15	1
135°	1	1	3	8	9	1
145°	0	0	0	2	3	0
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



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CATALOG NUMBER: S125DR-H375D927-X4F0-XX-UDD-D-W

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	358.8	358.8	358.8	358.8	358.8
2.5°	360.2	359.2	356.5	359.2	358.8
5°	358.5	358.2	355.5	358.2	358.2
7.5°	356.2	355.8	353.5	356.2	355.8
10°	352.9	352.9	350.5	352.5	352.5
12.5°	348.5	348.5	345.9	348.2	347.6
15°	342.6	343.6	340.6	342.6	342.2
17.5°	336.6	336.6	334.3	335.9	335.9
20°	328.3	329.6	327.3	329.0	328.0
22.5°	321.0	321.7	319.4	321.0	319.4
25°	311.7	313.1	310.4	312.1	311.7
27.5°	302.1	303.1	301.1	303.1	302.1
30°	291.8	292.8	291.5	292.8	292.5
32.5°	280.9	282.9	281.9	282.9	282.6
35°	269.9	271.9	271.3	272.6	272.9
37.5°	258.7	260.7	260.7	262.3	262.7
40°	246.7	249.4	250.1	252.4	252.0
42.5°	235.1	237.8	238.8	241.8	241.8
45°	222.2	225.8	227.8	231.5	231.8
47.5°	209.9	213.9	216.9	220.2	220.9
50°	197.7	201.3	206.3	209.6	210.3
52.5°	184.4	189.0	194.0	198.6	200.0
55°	171.5	176.8	182.7	187.0	188.7
57.5°	158.2	163.8	170.5	175.8	177.1
60°	144.3	150.9	158.5	163.8	165.2
62.5°	131.3	138.6	146.6	152.2	154.2
65°	118.7	125.7	134.3	140.3	141.9
67.5°	105.1	112.8	121.7	128.3	130.0
70°	91.5	99.8	109.4	115.7	117.4
72.5°	77.6	86.9	97.2	104.1	106.1
75°	64.7	74.3	84.9	92.2	94.8
77.5°	52.4	62.3	73.0	80.6	82.9
80°	40.1	50.4	62.0	70.0	72.3
82.5°	29.2	40.1	52.1	60.0	62.3
85°	19.9	31.2	43.4	51.1	53.7
87.5°	12.3	23.2	35.8	43.4	46.1
90°	5.6	16.6	28.9	36.8	39.5
92.5°	5.0	15.3	27.2	35.2	37.5
95°	4.6	13.9	25.5	33.2	35.5
97.5°	4.3	12.6	23.9	31.5	33.8
100°	4.0	11.3	22.6	29.8	32.2
102.5°	3.6	10.3	20.9	28.2	30.2
105°	3.3	9.0	19.6	26.5	28.9
107.5°	3.0	7.6	18.2	24.9	27.2
110°	2.7	6.6	16.6	23.2	25.5



TEST NUMBER: P243695

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.3	5.6	15.3	21.6	23.9
115°	2.3	4.6	13.6	19.9	22.2
117.5°	2.0	3.6	11.9	18.2	20.6
120°	1.7	2.7	10.6	16.6	18.9
122.5°	1.7	2.0	9.3	14.9	17.2
125°	1.3	1.3	8.0	12.9	15.3
127.5°	1.3	1.0	6.6	11.6	13.3
130°	1.0	0.7	5.6	10.3	11.9
132.5°	1.0	0.7	4.3	9.0	10.6
135°	0.7	0.7	3.0	7.6	9.0
137.5°	0.7	0.3	2.0	6.0	7.6
140°	0.3	0.3	0.7	4.6	6.0
142.5°	0.3	0.3	0.3	3.3	4.6
145°	0.3	0.0	0.0	2.0	3.0
147.5°	0.3	0.0	0.0	0.7	1.7
150°	0.0	0.0	0.0	0.0	0.3
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)