

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: P243729

Luminaire Tested: **S125RDR-H375D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P243729  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125RDR-H375D927-X4F0-XX-UDD-F-W  
Description: DEFINE 5 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: 1108.2 lumens  
Efficiency: N/A  
Efficacy: 98.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.12 / 1.26  
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')  
CIE Type: Direct

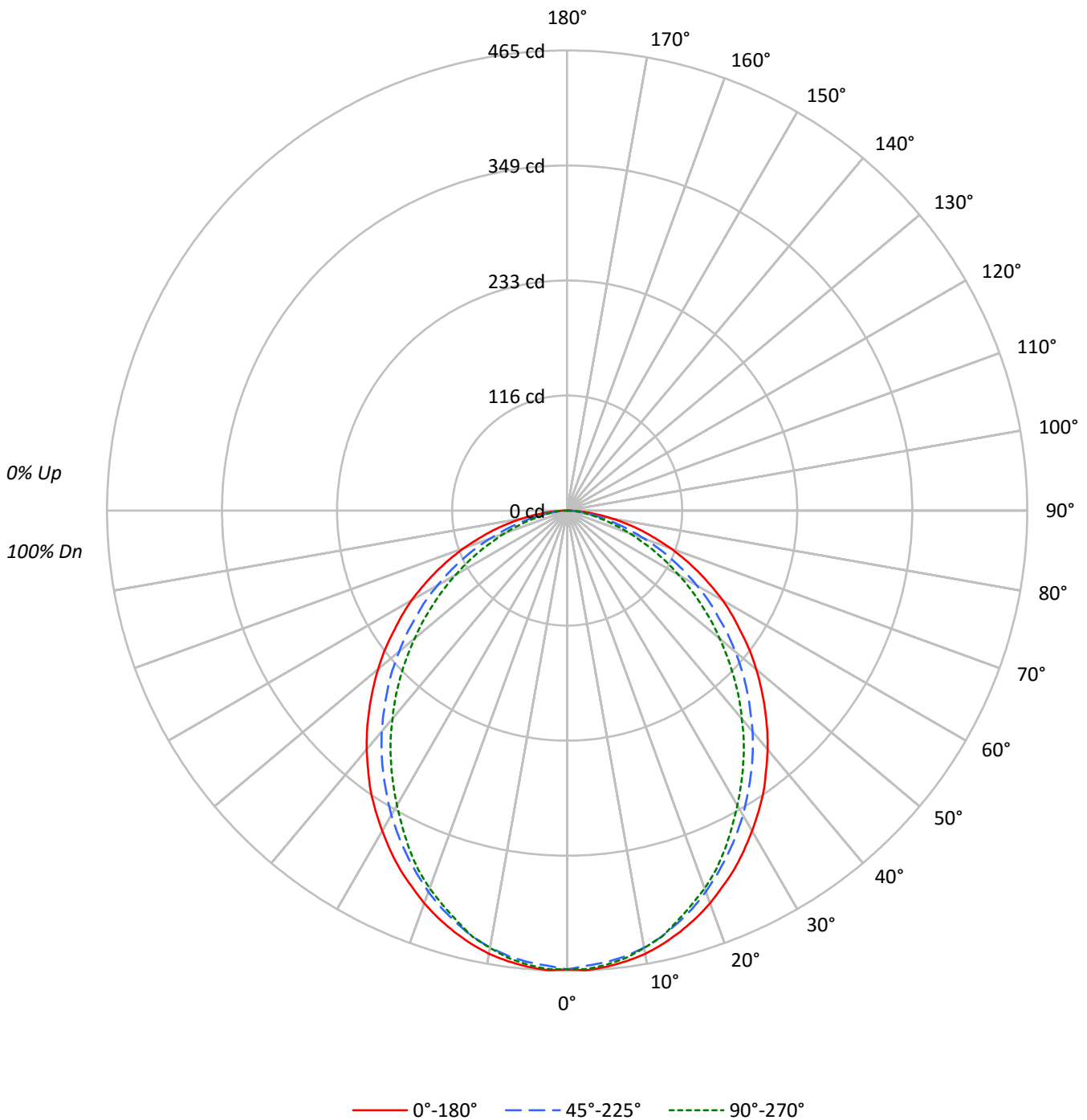
Input Watts (W): 11.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	63	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	43		55	48	43		53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39		50	43	38		49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35		46	39	35		45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31		42	36	31		41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29		39	33	29		38	33	28	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3295	3295	3295
5°	3300	3268	3286
10°	3282	3236	3238
15°	3243	3175	3160
20°	3193	3100	3072
25°	3136	3009	2960
30°	3067	2915	2822
35°	3004	2811	2693
40°	2923	2705	2548
45°	2840	2583	2396
50°	2758	2449	2226
55°	2659	2301	2047
60°	2579	2149	1852
65°	2454	1969	1640
70°	2315	1723	1399
75°	2131	1439	1140
80°	1875	1113	937
85°	1598	921	864



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	43.7	3.9
10°-20°	122.3	11.0
20°-30°	178.0	16.1
30°-40°	203.8	18.4
40°-50°	199.5	18.0
50°-60°	168.4	15.2
60°-70°	117.9	10.6
70°-80°	59.9	5.4
80°-90°	14.7	1.3
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°	344.0	31.0
0°-40°	547.8	49.4
0°-60°	915.7	82.6
0°-90°	1108.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	464	464	464	464	464	
5°	463	462	458	461	461	44
15°	441	439	432	431	430	124
25°	400	395	384	380	377	184
35°	346	338	324	314	310	216
45°	283	273	257	243	238	218
55°	215	205	186	171	165	193
65°	146	135	117	102	98	145
75°	78	68	52	44	42	82
85°	20	13	11	11	11	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	463.6	463.6	463.6	463.6	463.6
2.5°	464.9	464.0	460.3	463.6	463.6
5°	462.6	461.6	458.0	461.0	460.6
7.5°	459.3	458.3	454.0	457.0	456.0
10°	454.7	453.3	448.4	450.0	448.7
12.5°	448.4	447.0	441.1	441.7	441.1
15°	440.7	439.1	431.5	431.1	429.5
17.5°	432.1	429.8	421.5	420.5	417.9
20°	422.2	419.2	409.9	407.9	406.2
22.5°	410.9	407.9	397.0	394.0	393.0
25°	399.9	395.3	383.7	379.7	377.4
27.5°	387.0	381.7	369.8	364.5	360.5
30°	373.7	367.8	355.2	348.2	343.9
32.5°	360.2	353.2	339.6	331.0	327.3
35°	346.2	337.9	324.0	314.4	310.4
37.5°	330.3	322.0	308.1	296.8	293.2
40°	315.1	306.4	291.5	279.2	274.6
42.5°	299.1	290.2	273.9	261.0	257.0
45°	282.6	273.3	257.0	243.4	238.4
47.5°	266.0	256.7	239.8	226.2	219.9
50°	249.4	239.4	221.5	207.6	201.3
52.5°	232.8	221.9	204.3	189.4	183.7
55°	214.6	205.3	185.7	170.8	165.2
57.5°	198.3	188.0	169.5	154.2	147.9
60°	181.4	170.1	151.2	136.3	130.3
62.5°	163.5	152.2	134.0	119.1	113.7
65°	145.9	134.6	117.1	102.5	97.5
67.5°	128.3	117.7	100.2	86.6	80.9
70°	111.4	100.5	82.9	70.6	67.3
72.5°	93.5	84.9	67.3	56.4	53.7
75°	77.6	68.0	52.4	43.8	41.5
77.5°	61.4	52.1	38.8	32.8	30.8
80°	45.8	37.8	27.2	23.5	22.9
82.5°	31.5	23.9	17.9	17.2	16.9
85°	19.6	12.6	11.3	10.6	10.6
87.5°	8.3	5.3	5.3	5.0	5.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)