

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: P334435

Luminaire Tested: **S125RDW-S375D940-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334435  
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: S125RDW-S375D940-4F0-1E-UDD-F  
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 375 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1217.9 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.11 / 1.25  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Direct

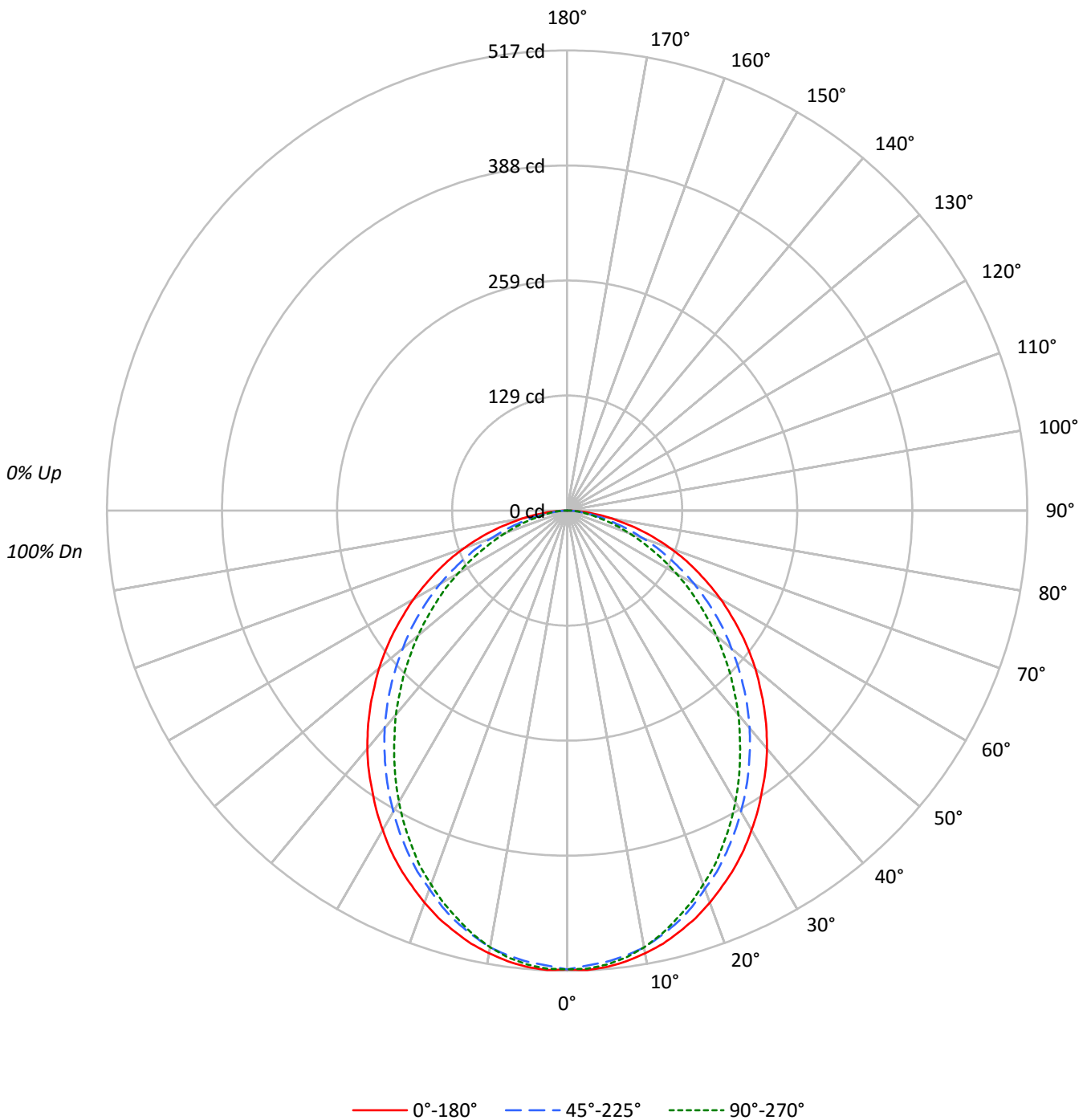
Input Watts (W): 11.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3329	3329	3329
5°	3337	3299	3319
10°	3312	3268	3268
15°	3272	3202	3176
20°	3222	3109	3072
25°	3163	3019	2952
30°	3090	2912	2820
35°	3014	2803	2670
40°	2944	2689	2524
45°	2859	2560	2365
50°	2773	2421	2198
55°	2674	2288	2021
60°	2574	2127	1830
65°	2457	1939	1612
70°	2323	1705	1390
75°	2138	1437	1155
80°	1882	1131	971
85°	1586	926	867



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.5	4.0
10°-20°	135.6	11.1
20°-30°	196.6	16.1
30°-40°	224.0	18.4
40°-50°	218.3	17.9
50°-60°	183.7	15.1
60°-70°	128.7	10.6
70°-80°	66.0	5.4
80°-90°	16.5	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°	380.7	31.3
0°-40°	604.7	49.6
0°-60°	1006.7	82.7
0°-90°	1217.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1217.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	516	516	516	516	516	
5°	515	513	509	513	512	49
15°	489	487	479	478	475	138
25°	444	438	424	418	414	204
35°	382	373	356	344	339	239
45°	313	302	280	265	259	241
55°	238	225	203	186	180	212
65°	161	148	127	111	106	159
75°	86	74	58	49	46	91
85°	21	14	12	12	12	25
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	515.5	515.5	515.5	515.5	515.5
2.5°	516.7	515.5	511.6	515.5	515.1
5°	514.7	513.2	508.9	512.8	512.0
7.5°	510.8	509.3	504.2	507.3	506.5
10°	505.0	503.8	498.4	499.5	498.4
12.5°	498.4	496.8	489.0	489.8	487.8
15°	489.4	487.1	478.9	478.5	475.0
17.5°	480.1	476.6	466.8	464.9	462.1
20°	468.8	464.9	452.4	450.5	447.0
22.5°	456.3	452.4	439.2	434.9	432.2
25°	443.8	438.0	423.6	418.5	414.3
27.5°	429.8	422.8	407.6	401.0	396.7
30°	414.3	406.9	390.5	381.6	378.1
32.5°	399.1	390.1	373.4	363.3	358.6
35°	382.3	373.0	355.5	344.2	338.7
37.5°	366.4	355.1	337.2	323.9	318.5
40°	349.2	337.6	318.9	304.1	299.4
42.5°	331.3	319.3	299.8	285.8	278.4
45°	313.0	301.7	280.3	264.8	258.9
47.5°	294.0	282.3	260.9	244.9	238.3
50°	276.0	263.2	241.0	224.7	218.8
52.5°	256.6	243.3	222.7	204.8	199.0
55°	237.5	225.0	203.2	185.7	179.5
57.5°	218.0	204.8	183.8	166.6	161.2
60°	199.3	185.7	164.7	147.6	141.7
62.5°	179.5	166.6	145.2	129.7	123.8
65°	160.8	147.6	126.9	111.4	105.5
67.5°	142.1	128.9	109.0	94.2	89.5
70°	123.0	109.8	90.3	78.3	73.6
72.5°	104.3	91.5	73.6	62.7	60.0
75°	85.7	74.0	57.6	49.1	46.3
77.5°	66.6	57.2	43.6	37.0	34.7
80°	50.6	41.3	30.4	26.9	26.1
82.5°	35.0	26.9	20.2	19.1	18.7
85°	21.4	14.4	12.5	12.1	11.7
87.5°	9.0	6.2	5.8	5.8	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)