

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: P334411

Luminaire Tested: **S125RDW-S610D835-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334411  
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-S610D835-4F0-1E-UDD-F  
Description: DEFINE 5 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 610 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2246.1 lumens  
Efficiency: N/A  
Efficacy: 119.5 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

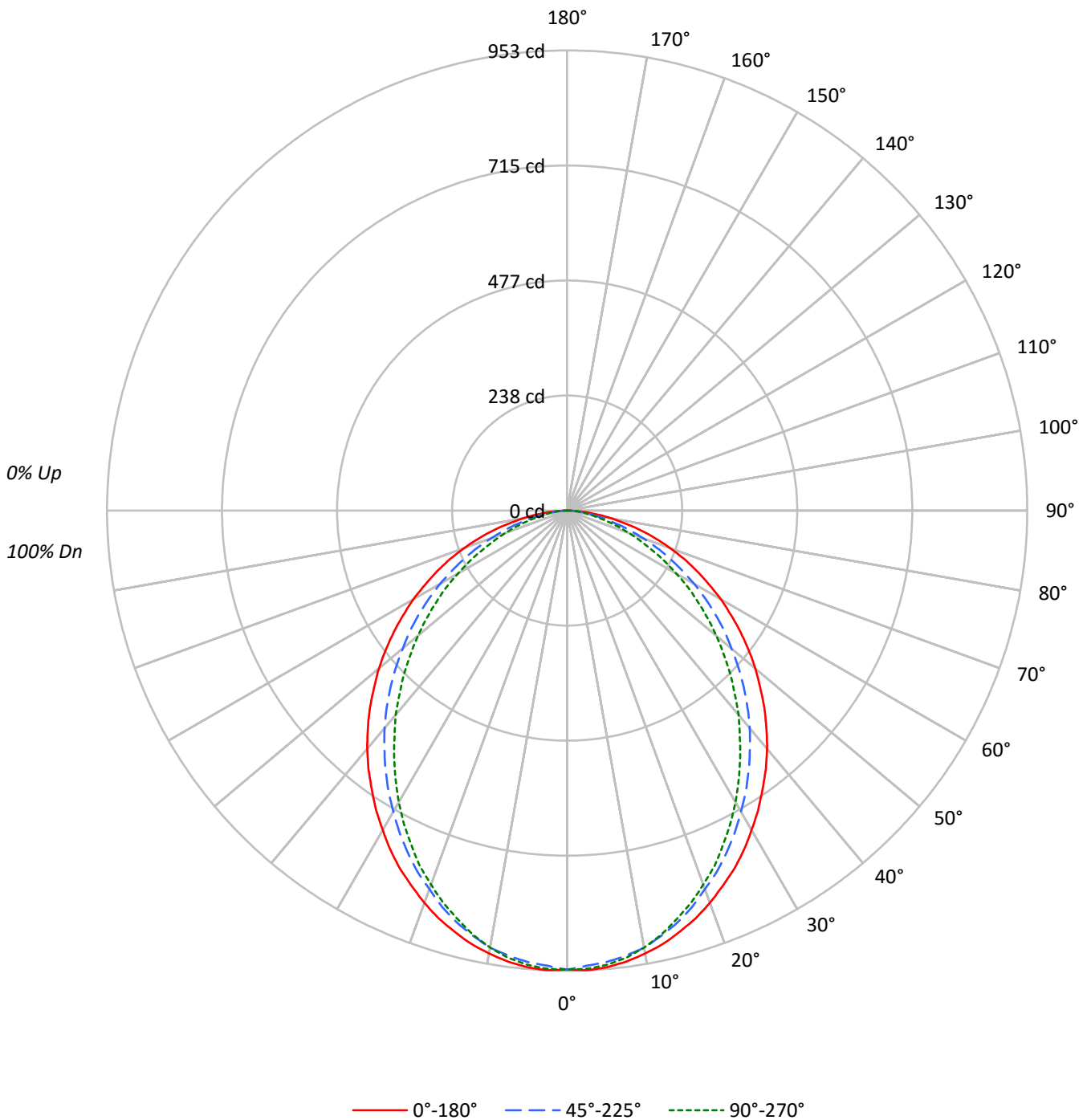
Input Watts (W): 18.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	6140	6140	6140
5°	6154	6084	6121
10°	6107	6027	6027
15°	6035	5905	5857
20°	5942	5734	5665
25°	5833	5567	5444
30°	5697	5371	5199
35°	5559	5169	4925
40°	5430	4958	4655
45°	5273	4722	4361
50°	5115	4466	4054
55°	4932	4220	3727
60°	4748	3923	3376
65°	4531	3577	2974
70°	4285	3146	2562
75°	3943	2653	2131
80°	3470	2083	1789
85°	2927	1704	1593



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.5	4.0
10°-20°	250.0	11.1
20°-30°	362.6	16.1
30°-40°	413.1	18.4
40°-50°	402.6	17.9
50°-60°	338.8	15.1
60°-70°	237.4	10.6
70°-80°	121.7	5.4
80°-90°	30.4	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°	702.1	31.3
0°-40°	1115.1	49.6
0°-60°	1856.6	82.7
0°-90°	2246.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2246.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	949	946	938	946	944	90
15°	903	898	883	882	876	254
25°	818	808	781	772	764	377
35°	705	688	656	635	625	442
45°	577	556	517	488	478	445
55°	438	415	375	342	331	392
65°	296	272	234	205	195	294
75°	158	136	106	90	85	167
85°	40	27	23	22	22	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	950.7	950.7	950.7	950.7	950.7
2.5°	952.8	950.7	943.5	950.7	949.9
5°	949.2	946.4	938.5	945.6	944.2
7.5°	942.1	939.2	929.8	935.6	934.2
10°	931.3	929.1	919.1	921.2	919.1
12.5°	919.1	916.2	901.8	903.3	899.7
15°	902.6	898.3	883.2	882.5	876.0
17.5°	885.3	878.9	860.9	857.3	852.3
20°	864.5	857.3	834.3	830.8	824.3
22.5°	841.5	834.3	809.9	802.0	797.0
25°	818.5	807.8	781.2	771.9	764.0
27.5°	792.7	779.8	751.8	739.6	731.7
30°	764.0	750.3	720.2	703.7	697.2
32.5°	736.0	719.5	688.6	669.9	661.3
35°	705.1	687.9	655.6	634.7	624.7
37.5°	675.7	654.8	621.8	597.4	587.3
40°	644.1	622.5	588.1	560.8	552.2
42.5°	611.0	588.8	552.9	527.0	513.4
45°	577.3	556.5	517.0	488.3	477.5
47.5°	542.1	520.6	481.1	451.6	439.4
50°	509.1	485.4	444.5	414.3	403.5
52.5°	473.2	448.8	410.7	377.7	366.9
55°	438.0	415.0	374.8	342.5	331.0
57.5°	402.1	377.7	338.9	307.3	297.3
60°	367.6	342.5	303.7	272.1	261.4
62.5°	331.0	307.3	267.8	239.1	228.3
65°	296.5	272.1	234.1	205.4	194.6
67.5°	262.1	237.7	201.0	173.8	165.1
70°	226.9	202.5	166.6	144.3	135.7
72.5°	192.4	168.7	135.7	115.6	110.6
75°	158.0	136.4	106.3	90.5	85.4
77.5°	122.8	105.5	80.4	68.2	63.9
80°	93.3	76.1	56.0	49.5	48.1
82.5°	64.6	49.5	37.3	35.2	34.5
85°	39.5	26.6	23.0	22.3	21.5
87.5°	16.5	11.5	10.8	10.8	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)