

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: P243749

Luminaire Tested: **S125RDR-H610D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243749
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-H610D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH 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: 1816.3 lumens
Efficiency: N/A
Efficacy: 105.6 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

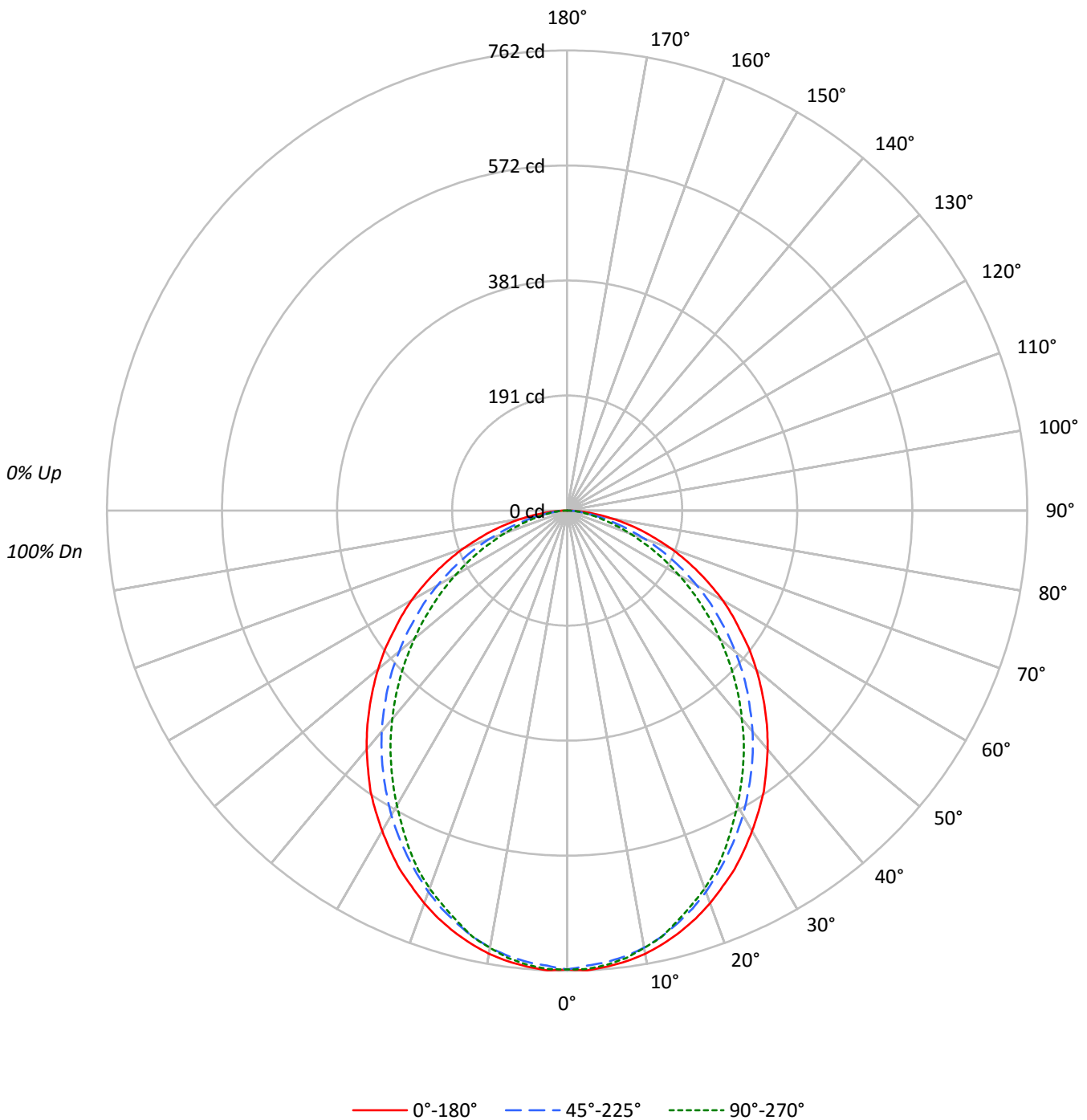
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5401	5401	5401
5°	5409	5355	5387
10°	5378	5304	5307
15°	5315	5204	5179
20°	5233	5081	5036
25°	5140	4932	4851
30°	5028	4777	4626
35°	4924	4607	4415
40°	4791	4433	4176
45°	4655	4234	3928
50°	4519	4015	3648
55°	4358	3772	3354
60°	4226	3524	3036
65°	4023	3227	2687
70°	3795	2824	2292
75°	3493	2359	1865
80°	3070	1825	1535
85°	2618	1509	1419



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.6	3.9
10°-20°	200.5	11.0
20°-30°	291.7	16.1
30°-40°	334.1	18.4
40°-50°	326.9	18.0
50°-60°	276.0	15.2
60°-70°	193.3	10.6
70°-80°	98.1	5.4
80°-90°	24.2	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°	563.8	31.0
0°-40°	897.9	49.4
0°-60°	1500.8	82.6
0°-90°	1816.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1816.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	760	760	760	760	760	
5°	758	757	751	756	755	72
15°	722	720	707	707	704	204
25°	656	648	629	622	619	302
35°	568	554	531	515	509	354
45°	463	448	421	399	391	357
55°	352	336	304	280	271	316
65°	239	221	192	168	160	237
75°	127	111	86	72	68	134
85°	32	21	18	17	17	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	759.9	759.9	759.9	759.9	759.9
2.5°	762.0	760.4	754.4	759.9	759.9
5°	758.2	756.6	750.6	755.5	755.0
7.5°	752.8	751.2	744.1	749.0	747.4
10°	745.2	743.0	734.9	737.6	735.4
12.5°	734.9	732.7	722.9	724.0	722.9
15°	722.4	719.7	707.2	706.6	703.9
17.5°	708.2	704.4	690.8	689.2	684.9
20°	691.9	687.0	671.8	668.6	665.8
22.5°	673.5	668.6	650.6	645.7	644.1
25°	655.5	647.9	628.9	622.4	618.6
27.5°	634.3	625.6	606.1	597.4	590.8
30°	612.6	602.8	582.1	570.7	563.7
32.5°	590.3	578.9	556.6	542.5	536.5
35°	567.5	553.9	531.0	515.3	508.8
37.5°	541.4	527.8	505.0	486.5	480.5
40°	516.4	502.2	477.8	457.7	450.1
42.5°	490.3	475.6	449.0	427.8	421.2
45°	463.1	447.9	421.2	399.0	390.8
47.5°	435.9	420.7	393.0	370.7	360.4
50°	408.7	392.4	363.1	340.3	329.9
52.5°	381.6	363.6	334.8	310.4	301.1
55°	351.7	336.5	304.4	279.9	270.7
57.5°	325.0	308.2	277.8	252.7	242.4
60°	297.3	278.8	247.9	223.4	213.6
62.5°	268.0	249.5	219.6	195.1	186.4
65°	239.2	220.7	191.9	168.0	159.8
67.5°	210.4	193.0	164.2	141.9	132.6
70°	182.6	164.7	135.9	115.8	110.3
72.5°	153.3	139.1	110.3	92.4	88.1
75°	127.2	111.4	85.9	71.7	67.9
77.5°	100.6	85.3	63.6	53.8	50.5
80°	75.0	62.0	44.6	38.6	37.5
82.5°	51.6	39.1	29.4	28.3	27.7
85°	32.1	20.7	18.5	17.4	17.4
87.5°	13.6	8.7	8.7	8.2	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)