

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: P243646

Luminaire Tested: **S125DR-H610D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-51)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125DR-H610D930-X4F0-XX-UDD-F-W
Description: DEFINE 5 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: 1912.4 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.39' x L: 3.88' x H: 0')
CIE Type: Direct

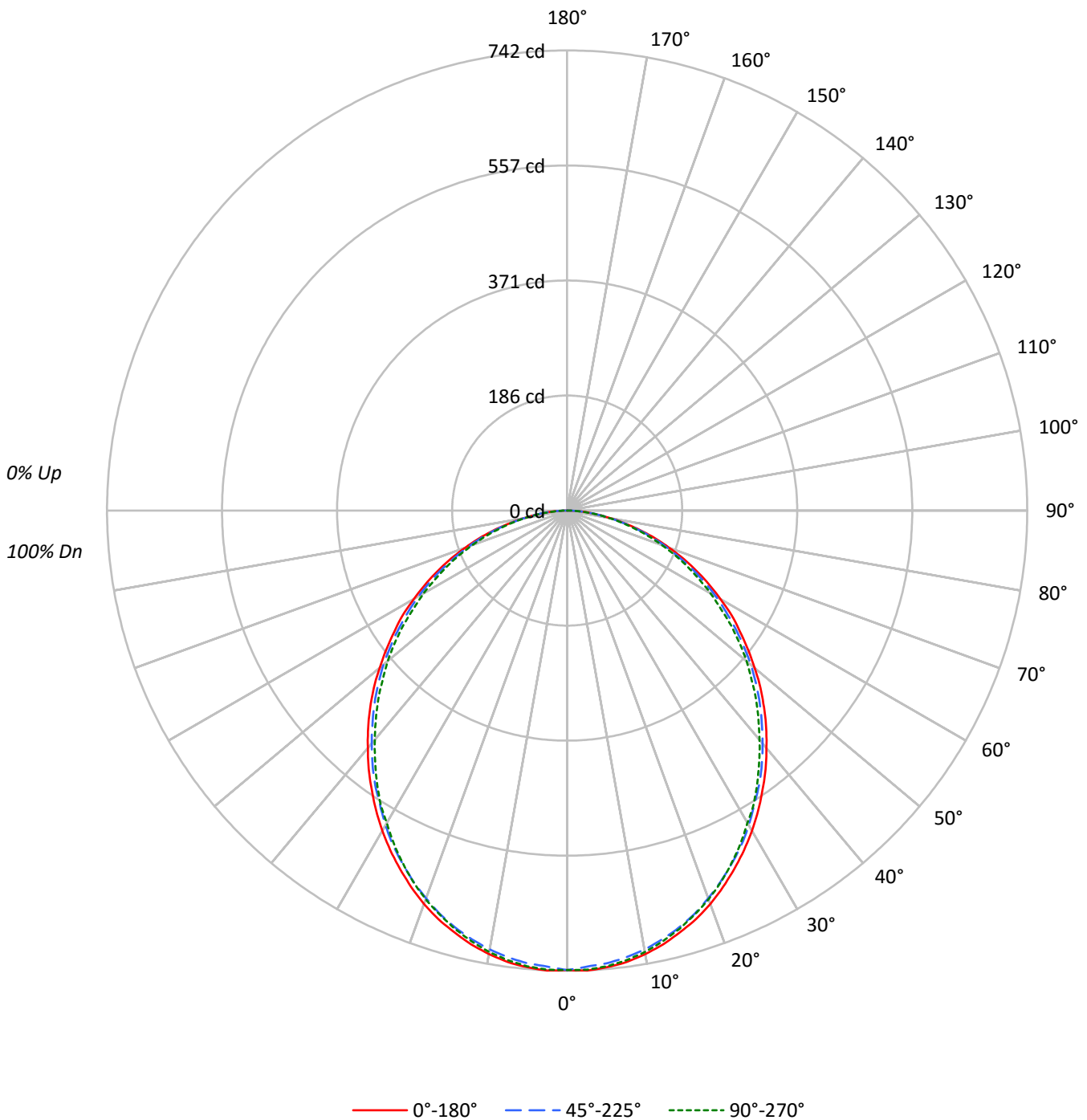
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5266	5266	5266
5°	5274	5227	5262
10°	5241	5186	5217
15°	5179	5123	5140
20°	5106	5032	5044
25°	5000	4927	4919
30°	4894	4808	4773
35°	4768	4683	4640
40°	4640	4549	4478
45°	4513	4415	4332
50°	4363	4274	4177
55°	4217	4102	3994
60°	4057	3940	3801
65°	3866	3730	3602
70°	3626	3491	3377
75°	3345	3238	3089
80°	2914	2894	2824
85°	2528	2528	2398



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.9	3.7
10°-20°	197.2	10.3
20°-30°	290.7	15.2
30°-40°	338.6	17.7
40°-50°	339.3	17.7
50°-60°	296.6	15.5
60°-70°	220.1	11.5
70°-80°	124.9	6.5
80°-90°	35.0	1.8
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°	557.9	29.2
0°-40°	896.5	46.9
0°-60°	1532.4	80.1
0°-90°	1912.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1912.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	741	741	741	741	741	
5°	739	738	733	738	738	70
15°	704	703	696	700	698	199
25°	638	635	628	630	627	294
35°	550	546	540	536	535	344
45°	449	448	439	433	431	346
55°	340	340	331	324	322	305
65°	230	228	222	217	214	228
75°	122	120	118	116	112	129
85°	31	31	31	30	29	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	740.9	740.9	740.9	740.9	740.9
2.5°	742.5	741.4	736.0	741.4	740.9
5°	739.2	738.1	732.7	738.1	737.6
7.5°	734.3	732.7	726.7	732.2	731.1
10°	726.2	725.1	718.6	722.9	722.9
12.5°	716.4	714.8	708.2	712.0	711.5
15°	703.9	702.8	696.3	700.1	698.5
17.5°	690.8	688.1	682.1	685.4	683.2
20°	675.1	672.9	665.3	668.0	666.9
22.5°	657.1	654.4	647.4	649.0	648.4
25°	637.6	635.4	628.3	630.0	627.3
27.5°	617.5	614.7	608.2	608.2	605.5
30°	596.3	593.6	585.9	585.9	581.6
32.5°	573.4	571.3	562.0	561.5	560.4
35°	549.5	546.3	539.7	536.5	534.8
37.5°	525.6	522.9	515.8	511.5	508.8
40°	500.1	498.4	490.3	486.5	482.7
42.5°	475.1	473.4	464.7	458.2	456.6
45°	449.0	447.9	439.2	432.7	431.0
47.5°	422.9	421.8	413.1	406.0	403.3
50°	394.6	394.6	386.5	379.4	377.8
52.5°	367.4	366.9	358.7	351.7	350.0
55°	340.3	339.7	331.0	324.0	322.3
57.5°	314.7	311.5	303.8	298.4	293.0
60°	285.4	283.7	277.2	270.1	267.4
62.5°	258.2	256.0	249.5	243.5	239.7
65°	229.9	228.3	221.8	216.9	214.2
67.5°	203.3	201.1	194.6	190.8	188.6
70°	174.5	172.8	168.0	163.1	162.5
72.5°	148.9	146.8	144.0	139.7	137.5
75°	121.8	119.6	117.9	115.8	112.5
77.5°	95.7	94.6	93.5	91.9	90.2
80°	71.2	71.2	70.7	69.6	69.0
82.5°	50.5	51.1	49.5	48.4	48.4
85°	31.0	31.0	31.0	29.9	29.4
87.5°	15.2	13.6	13.6	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)