

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: P243754

Luminaire Tested: **S125RDR-H610D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243754
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-H610D935-X4F0-XX-UDD-F-W
Description: DEFINE 5 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1918.1 lumens
Efficiency: N/A
Efficacy: 111.5 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

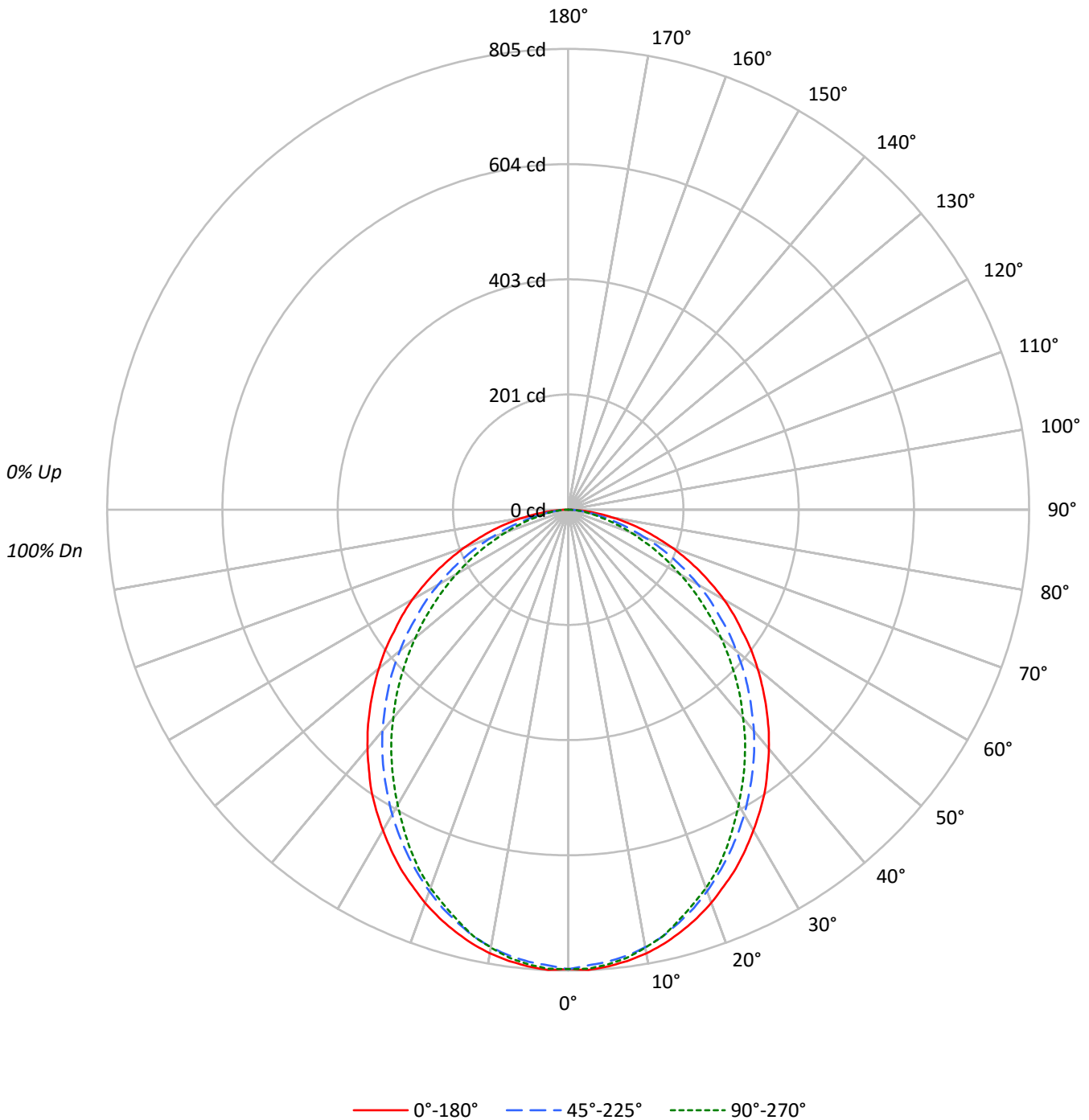
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	5704	5704	5704
5°	5713	5656	5688
10°	5680	5601	5605
15°	5613	5495	5469
20°	5527	5366	5319
25°	5429	5208	5122
30°	5309	5046	4886
35°	5200	4866	4662
40°	5059	4682	4410
45°	4916	4472	4148
50°	4773	4239	3852
55°	4602	3983	3543
60°	4463	3720	3207
65°	4248	3407	2839
70°	4009	2982	2421
75°	3688	2491	1972
80°	3242	1928	1621
85°	2764	1590	1500



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	3.9
10°-20°	211.7	11.0
20°-30°	308.1	16.1
30°-40°	352.8	18.4
40°-50°	345.2	18.0
50°-60°	291.5	15.2
60°-70°	204.1	10.6
70°-80°	103.6	5.4
80°-90°	25.5	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°	595.4	31.0
0°-40°	948.2	49.4
0°-60°	1584.9	82.6
0°-90°	1918.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1918.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	802	802	802	802	802	
5°	801	799	793	798	797	76
15°	763	760	747	746	743	215
25°	692	684	664	657	653	319
35°	599	585	561	544	537	374
45°	489	473	445	421	413	377
55°	371	355	321	296	286	333
65°	253	233	203	177	169	250
75°	134	118	91	76	72	142
85°	34	22	20	18	18	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	802.5	802.5	802.5	802.5	802.5
2.5°	804.8	803.0	796.7	802.5	802.5
5°	800.7	799.0	792.7	797.9	797.3
7.5°	795.0	793.3	785.8	791.0	789.3
10°	787.0	784.7	776.1	778.9	776.6
12.5°	776.1	773.8	763.4	764.6	763.4
15°	762.9	760.0	746.8	746.2	743.3
17.5°	747.9	743.9	729.6	727.8	723.3
20°	730.7	725.6	709.5	706.0	703.2
22.5°	711.2	706.0	687.1	681.9	680.2
25°	692.3	684.2	664.1	657.2	653.2
27.5°	669.9	660.7	640.0	630.8	624.0
30°	646.9	636.6	614.8	602.7	595.3
32.5°	623.4	611.3	587.8	572.9	566.6
35°	599.3	584.9	560.8	544.2	537.3
37.5°	571.7	557.4	533.3	513.7	507.4
40°	545.3	530.4	504.6	483.3	475.3
42.5°	517.8	502.3	474.1	451.7	444.9
45°	489.1	473.0	444.9	421.3	412.7
47.5°	460.4	444.3	415.0	391.5	380.6
50°	431.7	414.4	383.4	359.3	348.4
52.5°	403.0	384.0	353.6	327.8	318.0
55°	371.4	355.3	321.4	295.6	285.9
57.5°	343.3	325.5	293.3	266.9	256.0
60°	314.0	294.5	261.7	235.9	225.6
62.5°	283.0	263.5	231.9	206.1	196.9
65°	252.6	233.0	202.6	177.4	168.8
67.5°	222.1	203.8	173.4	149.8	140.1
70°	192.9	173.9	143.5	122.3	116.5
72.5°	161.9	146.9	116.5	97.6	93.0
75°	134.3	117.7	90.7	75.8	71.8
77.5°	106.2	90.1	67.2	56.8	53.4
80°	79.2	65.4	47.1	40.8	39.6
82.5°	54.5	41.3	31.0	29.8	29.3
85°	33.9	21.8	19.5	18.4	18.4
87.5°	14.4	9.2	9.2	8.6	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)