

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: P243656

Luminaire Tested: **S125DR-H610D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243656
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-H610D940-X4F0-XX-UDD-F-W
Description: DEFINE 5 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2091.6 lumens
Efficiency: N/A
Efficacy: 121.6 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

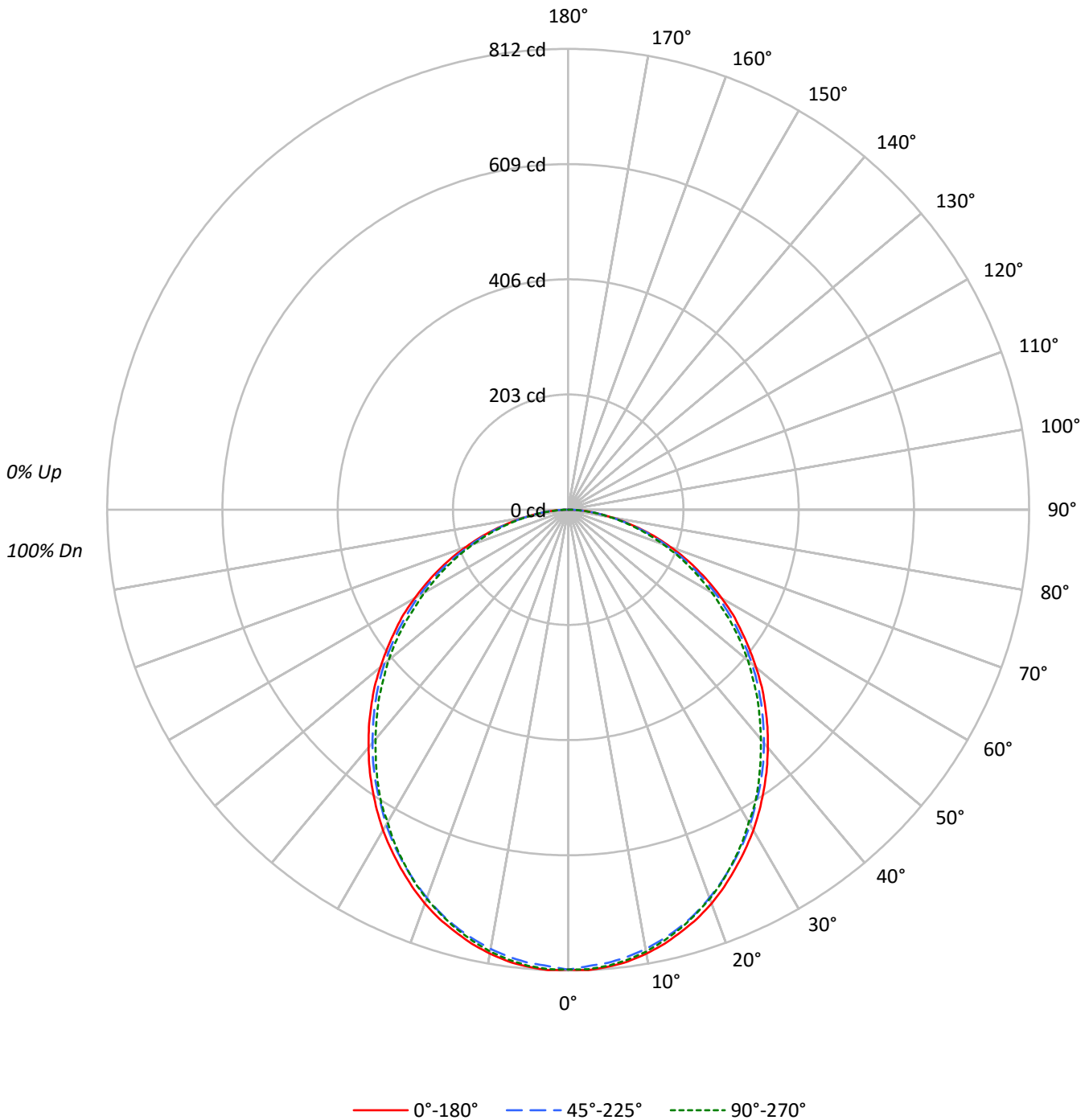
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5759	5759	5759
5°	5768	5718	5755
10°	5732	5672	5706
15°	5665	5603	5621
20°	5585	5504	5517
25°	5468	5389	5380
30°	5353	5260	5220
35°	5215	5122	5076
40°	5074	4975	4898
45°	4935	4828	4738
50°	4772	4674	4569
55°	4611	4486	4368
60°	4436	4310	4158
65°	4230	4080	3939
70°	3965	3817	3695
75°	3658	3542	3380
80°	3188	3164	3090
85°	2764	2764	2618



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.4	3.7
10°-20°	215.7	10.3
20°-30°	318.0	15.2
30°-40°	370.3	17.7
40°-50°	371.1	17.7
50°-60°	324.4	15.5
60°-70°	240.8	11.5
70°-80°	136.5	6.5
80°-90°	38.3	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°	610.2	29.2
0°-40°	980.5	46.9
0°-60°	1676.0	80.1
0°-90°	2091.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2091.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	810	810	810	810	810	
5°	808	807	801	807	807	77
15°	770	769	762	766	764	217
25°	697	695	687	689	686	321
35°	601	598	590	587	585	376
45°	491	490	480	473	471	379
55°	372	372	362	354	352	333
65°	252	250	243	237	234	249
75°	133	131	129	127	123	141
85°	34	34	34	33	32	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	810.3	810.3	810.3	810.3	810.3
2.5°	812.1	810.9	804.9	810.9	810.3
5°	808.5	807.3	801.4	807.3	806.7
7.5°	803.2	801.4	794.8	800.8	799.6
10°	794.2	793.0	785.9	790.7	790.7
12.5°	783.5	781.8	774.6	778.8	778.2
15°	769.9	768.7	761.5	765.7	763.9
17.5°	755.6	752.6	746.1	749.6	747.3
20°	738.4	736.0	727.7	730.6	729.4
22.5°	718.7	715.8	708.0	709.8	709.2
25°	697.3	695.0	687.2	689.0	686.0
27.5°	675.3	672.4	665.2	665.2	662.3
30°	652.2	649.2	640.9	640.9	636.1
32.5°	627.2	624.8	614.7	614.1	612.9
35°	601.0	597.5	590.3	586.8	585.0
37.5°	574.9	571.9	564.2	559.4	556.4
40°	546.9	545.1	536.2	532.1	527.9
42.5°	519.6	517.8	508.3	501.2	499.4
45°	491.0	489.9	480.3	473.2	471.4
47.5°	462.5	461.3	451.8	444.1	441.1
50°	431.6	431.6	422.7	415.0	413.2
52.5°	401.9	401.3	392.4	384.6	382.9
55°	372.1	371.6	362.0	354.3	352.5
57.5°	344.2	340.6	332.3	326.4	320.4
60°	312.1	310.3	303.2	295.5	292.5
62.5°	282.4	280.0	272.9	266.3	262.2
65°	251.5	249.7	242.6	237.2	234.2
67.5°	222.3	220.0	212.8	208.7	206.3
70°	190.8	189.0	183.7	178.3	177.8
72.5°	162.9	160.5	157.5	152.8	150.4
75°	133.2	130.8	129.0	126.6	123.1
77.5°	104.6	103.4	102.3	100.5	98.7
80°	77.9	77.9	77.3	76.1	75.5
82.5°	55.3	55.9	54.1	52.9	52.9
85°	33.9	33.9	33.9	32.7	32.1
87.5°	16.6	14.9	14.9	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)