

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: P243135

Luminaire Tested: **S122DR-H485D935-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-48)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-H485D935-X4F0-XX-UDD-F-W
Description: DEFINE 2 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: 1584.8 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.29
Luminous Opening: Rectangular (W 0.15' x L: 3.88' x H: 0')
CIE Type: Direct

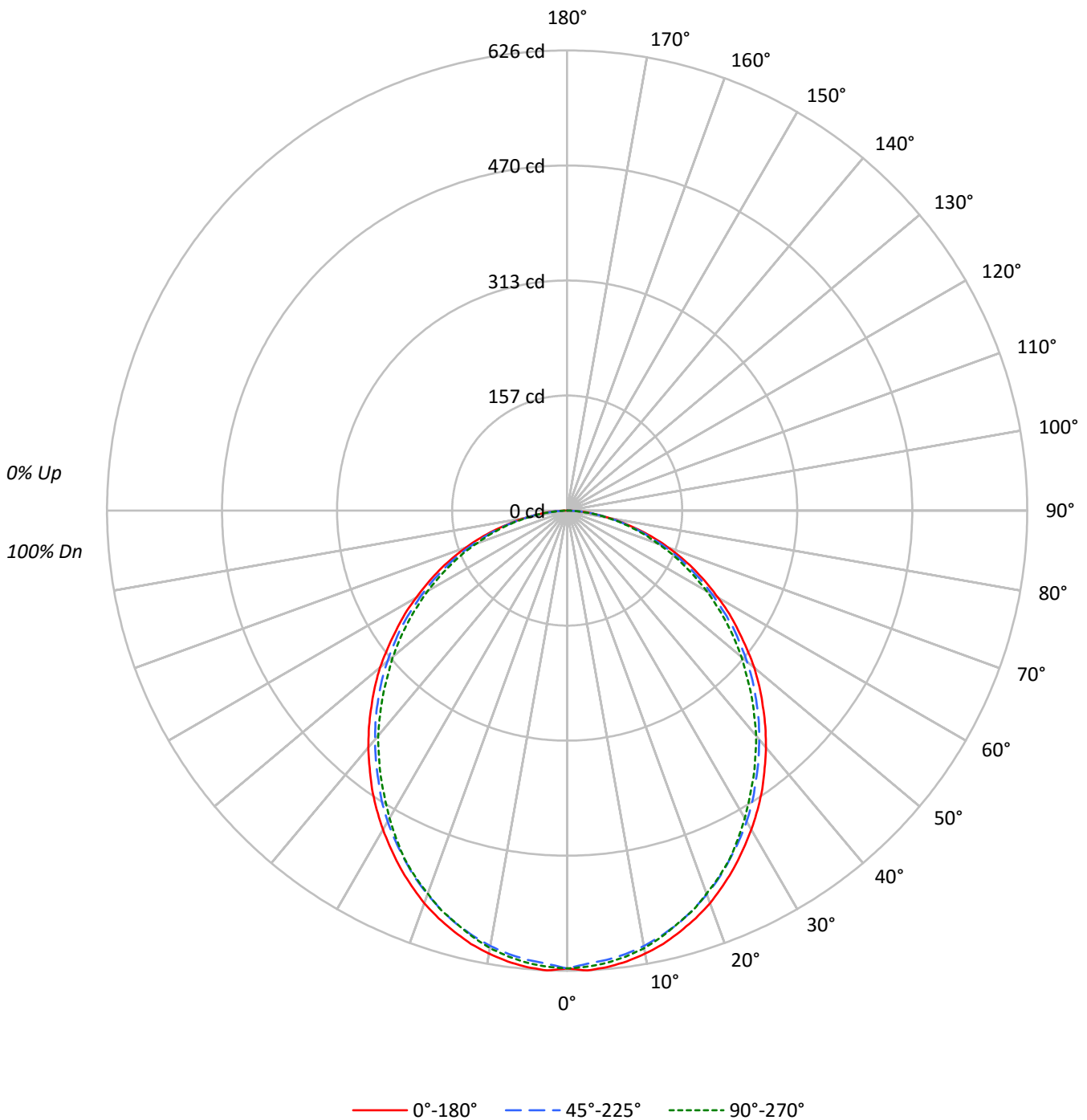
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	43	69	57	48	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31
9	57	44	36	30	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11863	11863	11863
5°	11920	11732	11809
10°	11835	11636	11690
15°	11694	11477	11467
20°	11520	11262	11240
25°	11280	11002	10990
30°	11021	10744	10630
35°	10759	10410	10278
40°	10463	10105	9948
45°	10145	9789	9541
50°	9850	9459	9168
55°	9435	9112	8767
60°	9032	8682	8354
65°	8640	8225	7865
70°	8120	7702	7318
75°	7396	7095	6756
80°	6417	6230	5978
85°	5529	4895	4524



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	3.7
10°-20°	165.1	10.4
20°-30°	242.7	15.3
30°-40°	281.8	17.8
40°-50°	281.4	17.8
50°-60°	245.1	15.5
60°-70°	181.3	11.4
70°-80°	102.2	6.4
80°-90°	26.6	1.7
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°	466.4	29.4
0°-40°	748.2	47.2
0°-60°	1274.7	80.4
0°-90°	1584.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1584.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	623	620	614	619	618	59
15°	593	590	582	584	582	167
25°	537	532	524	523	523	247
35°	463	458	448	444	442	289
45°	377	372	363	358	354	291
55°	284	282	274	267	264	254
65°	192	189	182	177	174	190
75°	100	100	96	93	92	107
85°	25	24	22	21	21	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	622.8	622.8	622.8	622.8	622.8
2.5°	626.2	623.4	617.1	622.2	621.1
5°	623.4	620.5	613.6	618.8	617.6
7.5°	618.8	615.9	608.5	613.6	611.9
10°	611.9	608.5	601.6	605.0	604.4
12.5°	603.9	600.4	592.4	595.3	594.1
15°	593.0	590.1	582.0	584.3	581.5
17.5°	581.5	576.9	569.4	571.7	570.0
20°	568.3	563.7	555.6	556.8	554.5
22.5°	552.8	548.2	540.7	540.7	539.6
25°	536.7	532.1	523.5	522.9	522.9
27.5°	518.9	514.9	506.3	504.6	503.4
30°	501.1	497.7	488.5	485.0	483.3
32.5°	482.2	477.6	469.0	465.0	462.1
35°	462.7	457.5	447.7	443.7	442.0
37.5°	441.4	436.2	427.6	424.2	420.8
40°	420.8	416.2	406.4	401.2	400.1
42.5°	398.9	394.3	385.7	380.0	376.6
45°	376.6	372.5	363.4	357.6	354.2
47.5°	354.7	350.1	342.1	335.2	330.6
50°	332.4	327.8	319.2	311.1	309.4
52.5°	307.7	304.8	296.2	288.7	286.4
55°	284.1	281.8	274.4	266.9	264.0
57.5°	261.7	258.9	250.3	244.5	241.1
60°	237.1	235.3	227.9	221.6	219.3
62.5°	214.1	211.8	205.5	199.2	196.3
65°	191.7	188.9	182.5	176.8	174.5
67.5°	168.8	165.9	160.7	156.1	153.8
70°	145.8	143.5	138.3	134.3	131.4
72.5°	123.4	121.1	116.5	112.5	111.9
75°	100.5	99.9	96.4	93.0	91.8
77.5°	79.2	78.6	76.3	74.6	73.5
80°	58.5	58.5	56.8	55.1	54.5
82.5°	40.2	40.8	39.0	37.9	37.9
85°	25.3	24.1	22.4	21.2	20.7
87.5°	10.3	8.6	8.0	6.3	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)