

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: P242270

Luminaire Tested: **S122DR-S485D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122DR-S485D930-X4F0-XX-UDD-F-W
Description: DEFINE 2 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1549.0 lumens
Efficiency: N/A
Efficacy: 82.4 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

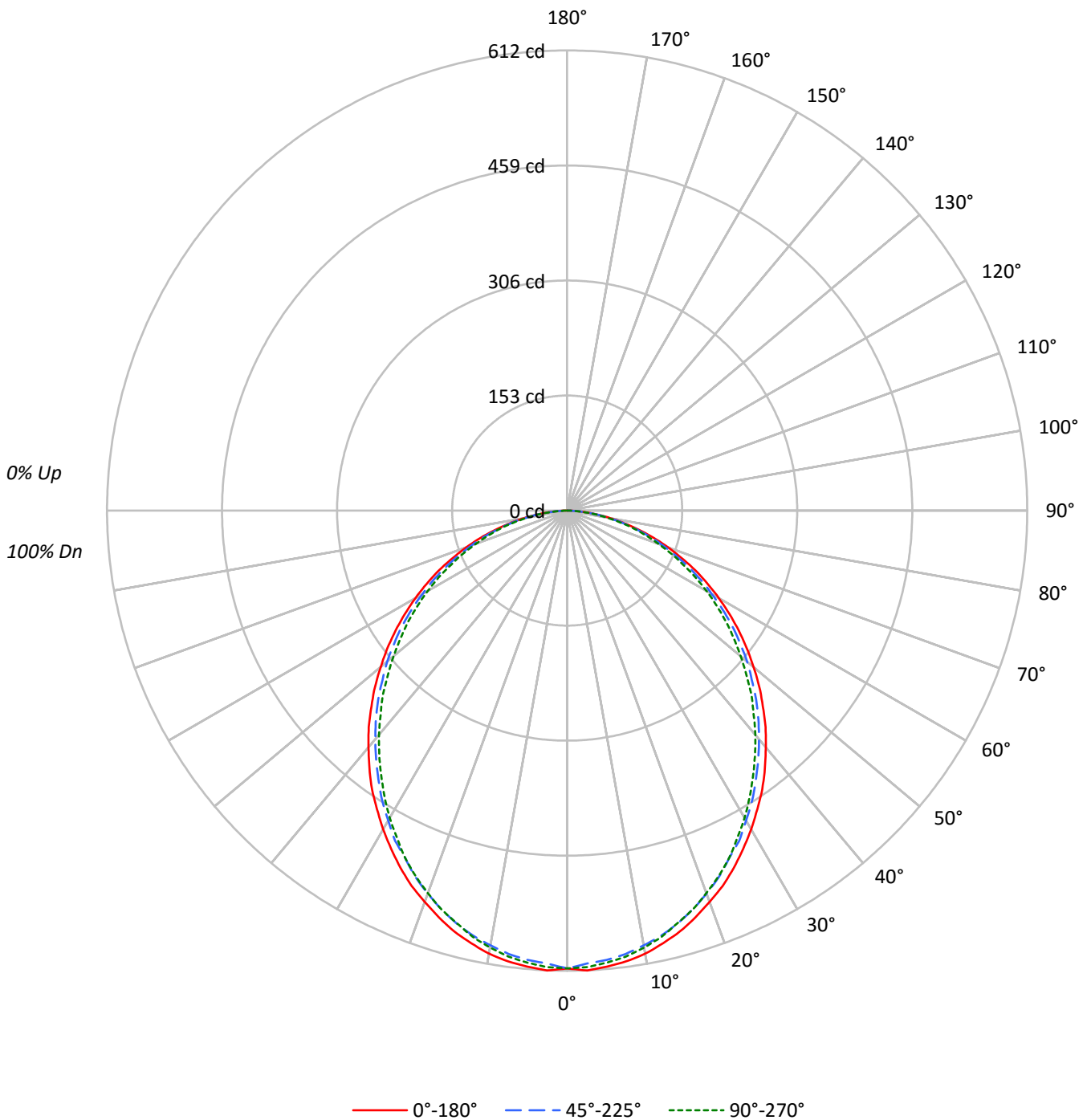
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11596	11596	11596
5°	11641	11472	11541
10°	11572	11357	11413
15°	11430	11209	11197
20°	11226	10988	10976
25°	11023	10716	10716
30°	10764	10467	10377
35°	10522	10169	10020
40°	10220	9869	9680
45°	9918	9571	9337
50°	9592	9263	8934
55°	9255	8903	8574
60°	8876	8476	8164
65°	8469	8045	7680
70°	7953	7530	7173
75°	7234	6940	6763
80°	6417	6230	5912
85°	5245	4983	4480



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.3	3.7
10°-20°	161.2	10.4
20°-30°	236.9	15.3
30°-40°	275.2	17.8
40°-50°	274.8	17.7
50°-60°	239.6	15.5
60°-70°	177.1	11.4
70°-80°	100.2	6.5
80°-90°	26.4	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°	455.5	29.4
0°-40°	730.6	47.2
0°-60°	1245.1	80.4
0°-90°	1549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1549.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	609	609	609	609	609	
5°	609	606	600	605	604	58
15°	580	576	568	571	568	163
25°	524	520	510	511	510	241
35°	452	447	437	434	431	283
45°	368	364	355	349	347	284
55°	279	275	268	261	258	249
65°	188	184	178	173	170	186
75°	98	97	94	91	92	105
85°	24	23	23	21	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	608.8	608.8	608.8	608.8	608.8
2.5°	612.3	609.4	603.0	608.8	607.7
5°	608.8	606.5	600.0	604.7	603.6
7.5°	604.7	601.2	594.8	599.5	598.3
10°	598.3	594.2	587.2	591.8	590.1
12.5°	589.5	586.0	579.0	581.9	580.7
15°	579.6	576.0	568.4	570.8	567.8
17.5°	567.3	563.7	556.1	559.1	556.1
20°	553.8	550.3	542.1	543.8	541.5
22.5°	540.3	535.1	527.5	527.5	526.3
25°	524.5	519.8	509.9	511.1	509.9
27.5°	507.0	502.9	495.3	493.5	490.6
30°	489.4	484.7	475.9	474.2	471.8
32.5°	470.7	467.2	457.8	454.3	451.9
35°	452.5	446.7	437.3	433.8	430.9
37.5°	432.0	426.8	417.4	413.3	410.4
40°	411.0	406.3	396.9	391.6	389.3
42.5°	390.5	385.8	376.4	370.6	367.1
45°	368.2	364.1	355.3	348.9	346.6
47.5°	346.6	342.5	333.1	326.7	323.1
50°	323.7	320.8	312.6	304.4	301.5
52.5°	301.5	297.4	289.8	283.3	279.2
55°	278.7	275.1	268.1	261.1	258.2
57.5°	255.8	252.9	245.3	238.3	235.9
60°	233.0	230.7	222.5	216.0	214.3
62.5°	210.7	206.6	200.8	194.9	192.6
65°	187.9	184.4	178.5	173.3	170.4
67.5°	164.5	161.6	156.3	152.2	149.9
70°	142.8	140.5	135.2	131.1	128.8
72.5°	120.6	118.3	115.3	111.2	109.5
75°	98.3	97.2	94.3	90.7	91.9
77.5°	78.4	76.1	74.9	73.2	71.4
80°	58.5	58.0	56.8	55.0	53.9
82.5°	39.8	39.8	39.2	36.9	36.9
85°	24.0	23.4	22.8	21.1	20.5
87.5°	10.5	9.4	8.2	6.4	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)