

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: P334175

Luminaire Tested: **S124DS-S350D927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DS-S350D927-4F0-1E-UDD-F
Description: DEFINE 4 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 350 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1108.0 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

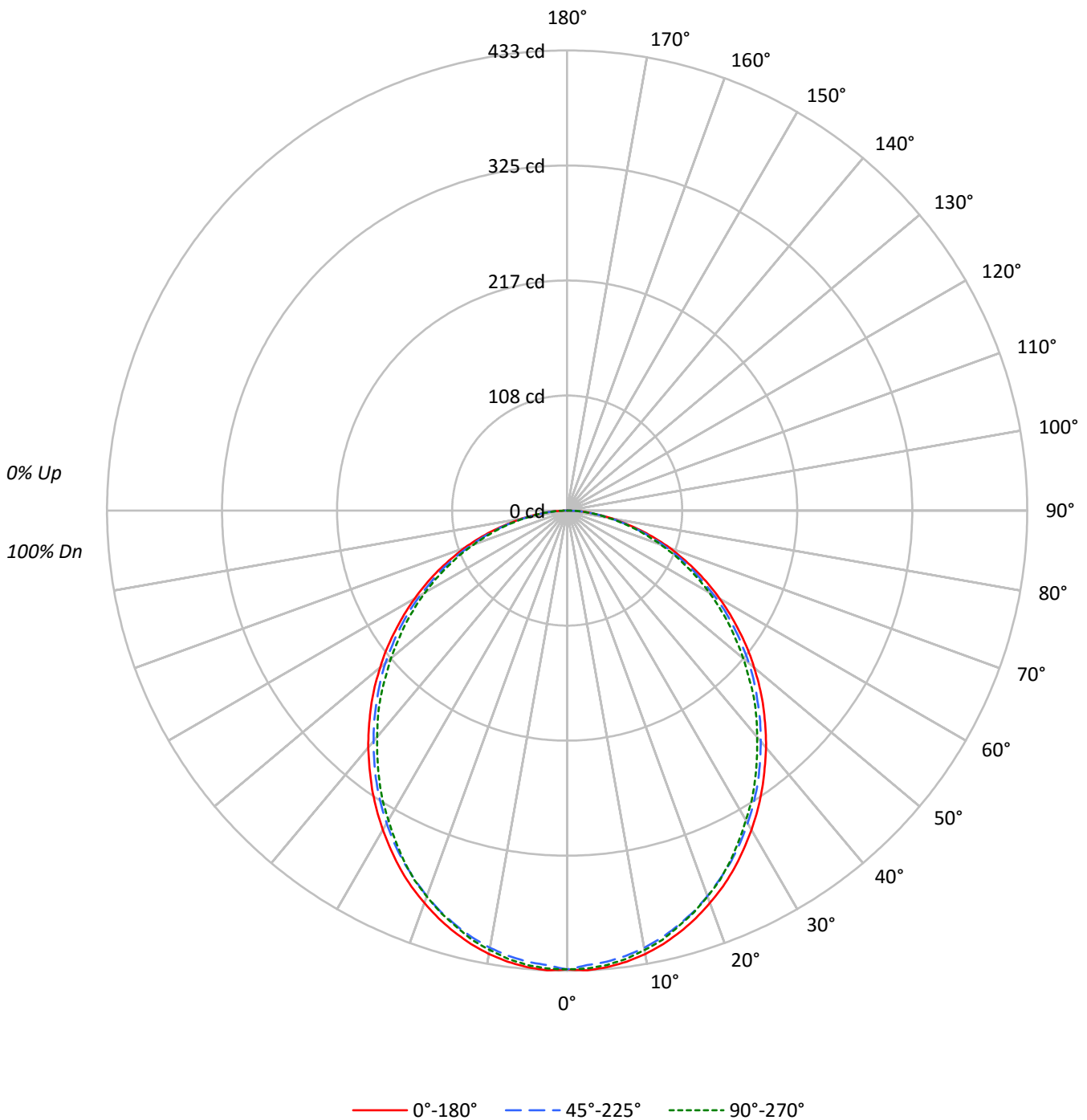
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	47	41	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	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	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3485	3485	3485
5°	3495	3453	3478
10°	3473	3425	3442
15°	3432	3377	3385
20°	3375	3316	3320
25°	3312	3248	3238
30°	3234	3167	3137
35°	3153	3082	3040
40°	3069	2986	2931
45°	2981	2891	2835
50°	2885	2806	2719
55°	2780	2697	2609
60°	2675	2575	2496
65°	2558	2458	2359
70°	2424	2301	2212
75°	2224	2115	2062
80°	1976	1897	1850
85°	1732	1667	1630



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.7	3.7
10°-20°	114.6	10.3
20°-30°	168.7	15.2
30°-40°	196.1	17.7
40°-50°	196.1	17.7
50°-60°	171.5	15.5
60°-70°	127.3	11.5
70°-80°	72.2	6.5
80°-90°	20.7	1.9
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°	324.0	29.2
0°-40°	520.1	46.9
0°-60°	887.7	80.1
0°-90°	1108.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1108.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	432	432	432	432	432	
5°	431	430	426	430	429	41
15°	411	409	404	406	405	116
25°	372	369	365	365	364	171
35°	320	318	313	310	308	200
45°	261	259	253	249	248	201
55°	198	196	192	188	185	177
65°	134	132	129	125	124	132
75°	71	70	68	66	66	76
85°	19	19	18	18	18	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	431.7	431.7	431.7	431.7	431.7
2.5°	433.0	432.0	428.2	431.7	431.3
5°	431.3	429.9	426.1	429.9	429.2
7.5°	428.2	426.8	422.7	425.8	425.4
10°	423.7	422.3	417.8	420.6	419.9
12.5°	417.8	416.4	411.6	414.7	413.7
15°	410.6	409.2	404.0	406.1	405.0
17.5°	402.3	400.5	395.7	397.1	396.4
20°	392.9	391.2	386.0	387.0	386.4
22.5°	382.9	380.5	375.3	377.4	376.0
25°	371.8	369.4	364.6	364.9	363.5
27.5°	359.4	357.0	352.5	351.8	350.0
30°	346.9	344.2	339.7	338.3	336.5
32.5°	333.8	331.4	326.5	324.8	323.1
35°	319.9	317.5	312.7	310.3	308.5
37.5°	305.4	303.3	298.2	295.7	293.3
40°	291.2	288.5	283.3	279.8	278.1
42.5°	276.0	274.6	268.8	264.6	263.6
45°	261.1	258.7	253.2	249.4	248.3
47.5°	245.6	243.8	238.7	234.5	231.7
50°	229.7	228.3	223.4	218.6	216.5
52.5°	214.1	212.4	207.2	203.0	200.3
55°	197.5	196.5	191.6	187.5	185.4
57.5°	181.9	180.9	176.1	171.9	169.8
60°	165.7	163.9	159.5	156.3	154.6
62.5°	149.8	148.4	143.5	140.8	139.0
65°	133.9	132.1	128.7	125.2	123.5
67.5°	117.6	116.2	112.8	109.3	109.0
70°	102.7	100.3	97.5	94.8	93.7
72.5°	86.8	84.4	82.3	80.2	79.2
75°	71.3	69.5	67.8	66.4	66.1
77.5°	56.0	55.3	53.6	53.3	52.2
80°	42.5	41.5	40.8	40.1	39.8
82.5°	29.4	29.1	29.1	28.7	28.4
85°	18.7	18.7	18.0	18.0	17.6
87.5°	9.0	8.6	8.3	8.3	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)