

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: P334070

Luminaire Tested: **S123RDS-S340D927-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123RDS-S340D927-4F0-1E-UDD-F
Description: DEFINE 3 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 340 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 963.5 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.07 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Direct

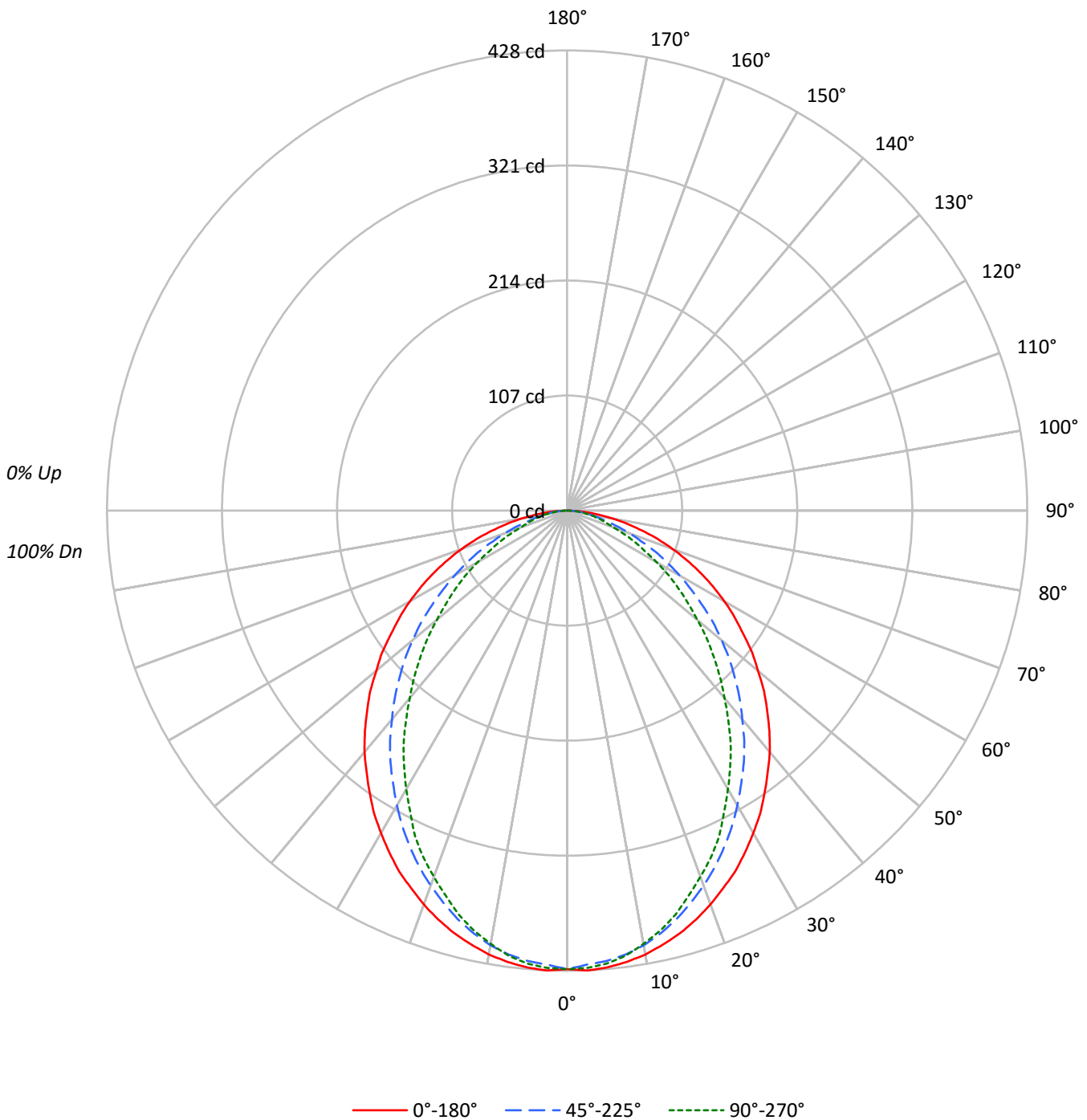
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	93	90	91	89	88	86					86			
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73					73			
3	92	82	75	68	90	81	74	68	78	72	67	75	70	66	73	68	64	62					62			
4	85	73	65	59	83	72	64	58	70	63	58	67	62	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	34	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4591	4591	4591
5°	4608	4545	4571
10°	4582	4488	4473
15°	4533	4383	4336
20°	4465	4251	4152
25°	4396	4103	3973
30°	4303	3934	3719
35°	4209	3763	3486
40°	4121	3562	3198
45°	4007	3364	2938
50°	3880	3140	2647
55°	3751	2883	2376
60°	3634	2607	2077
65°	3479	2308	1780
70°	3289	1939	1438
75°	3007	1526	1352
80°	2678	1351	1246
85°	2260	1198	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.1	4.2
10°-20°	111.5	11.6
20°-30°	160.6	16.7
30°-40°	180.8	18.8
40°-50°	173.0	18.0
50°-60°	141.6	14.7
60°-70°	95.5	9.9
70°-80°	47.9	5.0
80°-90°	12.5	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°	312.2	32.4
0°-40°	493.0	51.2
0°-60°	807.6	83.8
0°-90°	963.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	963.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	426	426	426	426	426	
5°	426	425	421	424	423	40
15°	407	403	393	392	389	115
25°	370	362	346	338	334	170
35°	320	308	286	272	265	200
45°	263	248	221	201	193	203
55°	200	183	154	134	127	179
65°	137	118	91	74	70	135
75°	72	56	37	33	32	77
85°	18	11	10	9	9	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	426.5	426.5	426.5	426.5	426.5
2.5°	428.2	426.8	422.7	426.5	425.8
5°	426.5	424.7	420.6	423.7	423.0
7.5°	423.4	421.6	416.4	418.5	417.5
10°	419.2	416.8	410.6	410.9	409.2
12.5°	413.3	410.6	402.6	402.3	400.2
15°	406.8	403.0	393.3	391.5	389.1
17.5°	398.8	394.7	382.5	379.1	375.6
20°	389.8	384.3	371.1	366.6	362.5
22.5°	379.8	373.2	359.0	353.1	349.3
25°	370.1	361.5	345.5	338.3	334.5
27.5°	358.3	349.0	331.7	322.0	316.1
30°	346.2	335.9	316.5	304.7	299.2
32.5°	334.1	322.0	301.3	288.1	282.2
35°	320.3	307.8	286.4	271.5	265.3
37.5°	306.5	293.0	270.5	253.9	246.3
40°	293.3	278.1	253.5	235.5	227.6
42.5°	278.4	263.2	237.6	217.6	210.6
45°	263.2	247.7	221.0	201.3	193.0
47.5°	248.3	231.1	204.8	183.3	176.1
50°	231.7	215.5	187.5	166.0	158.1
52.5°	216.9	198.9	171.2	148.7	141.8
55°	199.9	183.0	153.6	133.5	126.6
57.5°	184.7	166.4	136.6	117.6	111.7
60°	168.8	149.8	121.1	102.4	96.5
62.5°	152.9	133.9	105.1	87.9	81.6
65°	136.6	117.6	90.6	73.7	69.9
67.5°	120.4	101.0	74.7	61.9	57.8
70°	104.5	85.8	61.6	49.5	45.7
72.5°	88.5	70.2	48.8	39.4	38.4
75°	72.3	55.7	36.7	33.2	32.5
77.5°	57.4	42.2	28.7	26.6	25.9
80°	43.2	29.1	21.8	20.8	20.1
82.5°	29.7	18.0	15.6	14.5	14.5
85°	18.3	10.7	9.7	9.0	9.0
87.5°	8.3	4.5	4.5	4.2	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)