

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: P334577

Luminaire Tested: **S122IP-S725U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334577
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IP-S725U940-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 725 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2585.9 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

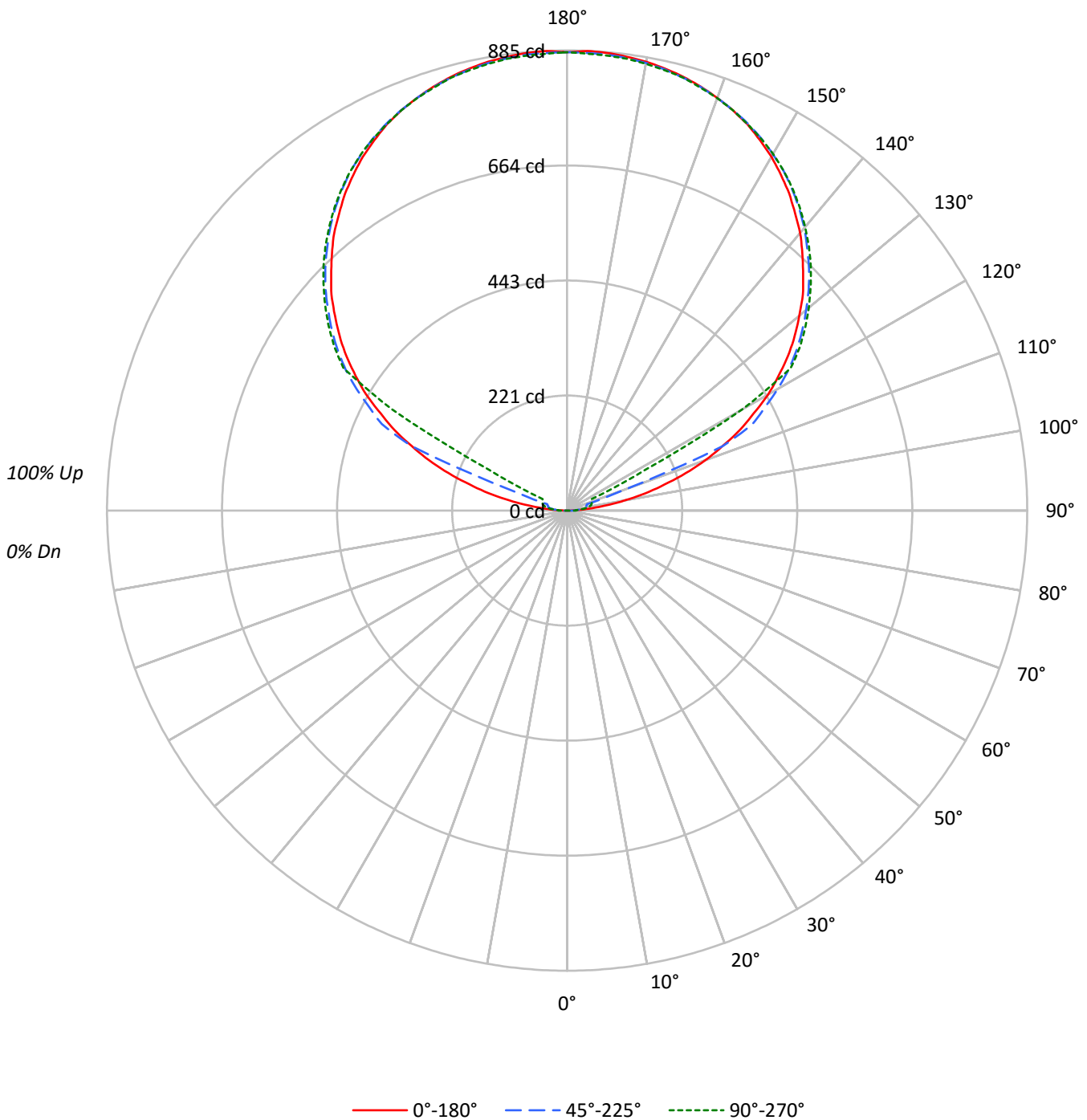
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334577

CATALOG NUMBER: S122IP-S725U940-4F0-1E-UDD

Luminous Intensity Polar Plot





TEST NUMBER: P334577

CATALOG NUMBER: S122IP-S725U940-4F0-1E-UDD

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P334577

CATALOG NUMBER: S122IP-S725U940-4F0-1E-UDD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	1.6	0.1
90°-100°	29.1	1.1
100°-110°	108.4	4.2
110°-120°	287.4	11.1
120°-130°	476.7	18.4
130°-140°	506.3	19.6
140°-150°	470.6	18.2
150°-160°	378.3	14.6
160°-170°	243.8	9.4
170°-180°	83.9	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.6	0.1
90°-120°	424.8	16.4
90°-150°	1878.4	72.6
90°-180°	2584.0	99.9
0°-180°	2585.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	1	8	13	16	17	2
95°	42	20	25	28	27	49
105°	194	213	39	46	48	207
115°	367	378	394	98	52	361
125°	519	527	539	544	545	463
135°	642	652	658	664	663	496
145°	744	744	755	759	756	466
155°	820	814	822	825	820	378
165°	864	860	862	866	862	244
175°	884	879	880	885	878	84
180°	882	882	882	882	882	



TEST NUMBER: P334577

CATALOG NUMBER: S122IP-S725U940-4F0-1E-UDD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.6	7.7	12.8	15.9	17.2
92.5°	15.9	13.4	15.3	16.6	17.2
95°	41.5	20.4	24.9	28.1	27.4
97.5°	74.6	22.3	32.5	34.4	35.1
100°	112.9	25.5	36.4	41.5	42.7
102.5°	155.0	153.7	37.6	44.7	46.6
105°	193.9	213.0	38.9	45.9	48.5
107.5°	239.2	255.1	40.2	47.2	49.8
110°	282.6	296.0	111.6	47.8	50.4



TEST NUMBER: P334577

CATALOG NUMBER: S122IP-S725U940-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	323.4	334.9	324.0	49.1	51.0
115°	366.8	377.6	393.6	98.2	52.3
117.5°	404.4	417.2	428.0	336.8	169.7
120°	446.5	456.1	467.6	475.2	389.1
122.5°	482.2	492.4	505.2	509.0	509.7
125°	518.6	526.9	539.0	543.5	545.4
127.5°	551.8	560.7	570.3	576.6	577.3
130°	583.0	593.2	600.2	607.3	606.6
132.5°	614.9	623.2	630.2	636.0	635.3
135°	641.7	651.9	657.6	664.0	662.7
137.5°	669.8	677.4	683.8	690.2	688.3
140°	697.2	702.3	709.3	715.1	711.9
142.5°	720.2	724.6	732.9	738.0	734.8
145°	744.4	743.8	754.6	759.1	755.9
147.5°	765.4	763.5	774.4	777.6	775.0
150°	785.9	781.4	791.6	795.4	792.2
152.5°	803.1	798.0	807.5	811.4	806.9
155°	819.7	813.9	821.6	825.4	820.3
157.5°	833.1	828.0	833.7	838.2	833.1
160°	844.5	840.7	844.5	848.4	843.9
162.5°	854.7	850.9	854.1	858.6	852.8
165°	863.7	859.8	861.8	866.2	861.8
167.5°	870.7	866.9	868.8	873.2	867.5
170°	876.4	872.6	873.9	878.3	872.6
172.5°	880.3	876.4	877.7	882.2	876.4
175°	883.5	879.0	880.3	884.7	878.3
177.5°	884.7	880.3	880.9	885.4	879.6
180°	881.5	881.5	881.5	881.5	881.5

(END OF REPORT)