

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: P334557

Luminaire Tested: **S122IP-S725U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334557
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-S725U840-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 725 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2928.6 lumens
Efficiency: N/A
Efficacy: 110.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

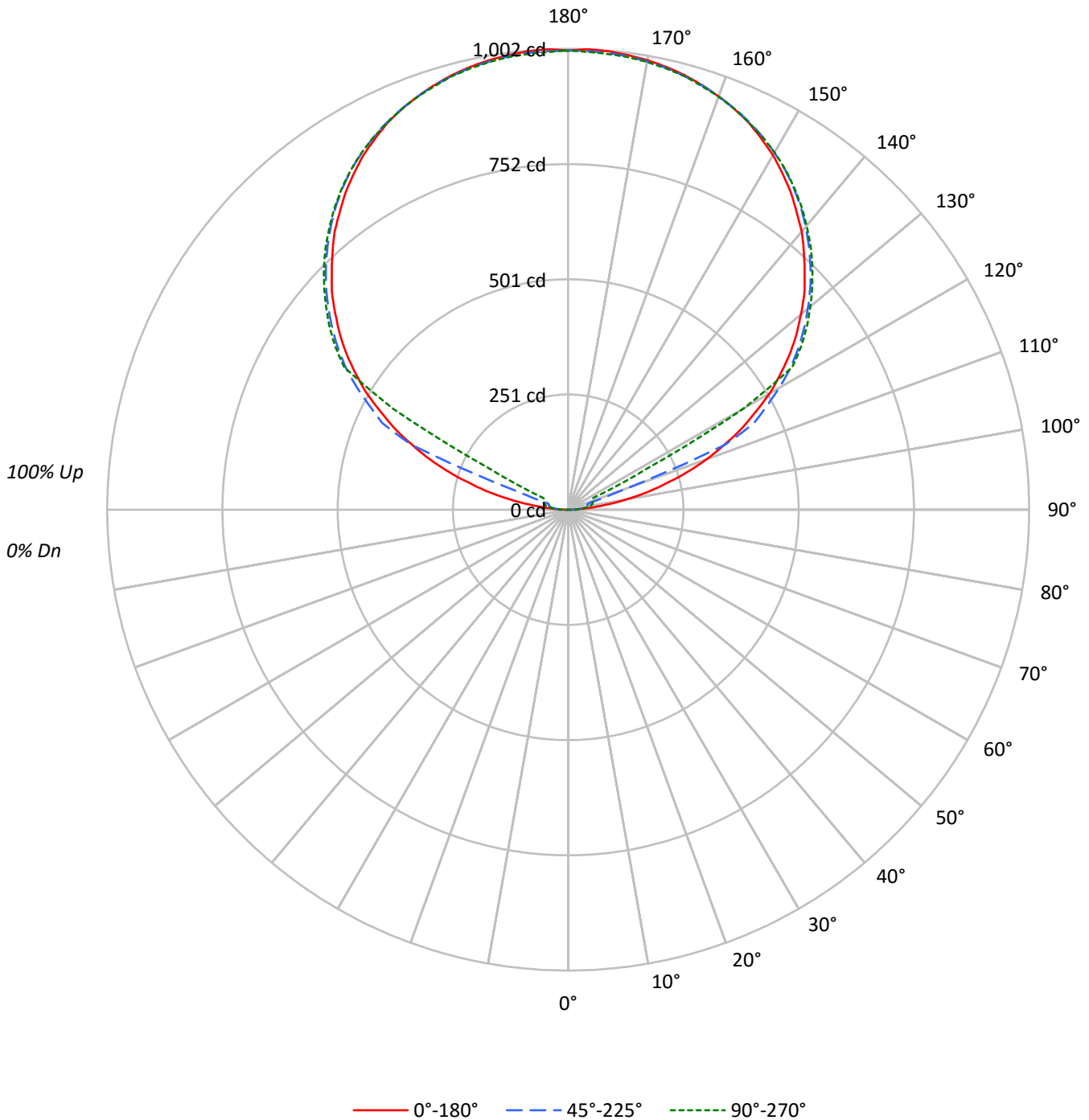
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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



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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°	1.8	0.1
90°-100°	32.9	1.1
100°-110°	122.7	4.2
110°-120°	325.5	11.1
120°-130°	539.8	18.4
130°-140°	573.4	19.6
140°-150°	532.9	18.2
150°-160°	428.4	14.6
160°-170°	276.1	9.4
170°-180°	95.0	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.8	0.1
90°-120°	481.1	16.4
90°-150°	2127.3	72.6
90°-180°	2927.0	99.9
0°-180°	2928.6	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	9	14	18	20	3
95°	47	23	28	32	31	56
105°	220	241	44	52	55	235
115°	415	428	446	111	59	409
125°	587	597	610	616	618	524
135°	727	738	745	752	751	561
145°	843	842	855	860	856	527
155°	928	922	930	935	929	428
165°	978	974	976	981	976	276
175°	1000	996	997	1002	995	95
180°	998	998	998	998	998	



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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°	0.7	8.7	14.4	18.1	19.5
92.5°	18.1	15.2	17.3	18.8	19.5
95°	47.0	23.1	28.2	31.8	31.1
97.5°	84.5	25.3	36.8	39.0	39.7
100°	127.9	28.9	41.2	47.0	48.4
102.5°	175.5	174.1	42.6	50.6	52.7
105°	219.6	241.3	44.1	52.0	54.9
107.5°	270.9	289.0	45.5	53.5	56.3
110°	320.0	335.2	126.4	54.2	57.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	366.3	379.3	367.0	55.6	57.8
115°	415.4	427.7	445.7	111.2	59.2
117.5°	458.0	472.4	484.7	381.4	192.2
120°	505.7	516.5	529.5	538.2	440.7
122.5°	546.1	557.7	572.1	576.5	577.2
125°	587.3	596.7	610.4	615.5	617.6
127.5°	624.9	635.0	645.8	653.0	653.8
130°	660.3	671.8	679.8	687.7	687.0
132.5°	696.4	705.8	713.7	720.2	719.5
135°	726.7	738.3	744.8	752.0	750.6
137.5°	758.5	767.2	774.4	781.6	779.5
140°	789.6	795.4	803.3	809.8	806.2
142.5°	815.6	820.6	830.0	835.8	832.2
145°	843.0	842.3	854.6	859.6	856.0
147.5°	866.9	864.7	877.0	880.6	877.7
150°	890.0	884.9	896.5	900.8	897.2
152.5°	909.5	903.7	914.5	918.9	913.8
155°	928.3	921.8	930.4	934.8	929.0
157.5°	943.4	937.7	944.2	949.2	943.4
160°	956.4	952.1	956.4	960.8	955.7
162.5°	968.0	963.7	967.3	972.3	965.8
165°	978.1	973.8	975.9	981.0	975.9
167.5°	986.1	981.7	983.9	989.0	982.5
170°	992.6	988.2	989.7	994.7	988.2
172.5°	996.9	992.6	994.0	999.1	992.6
175°	1000.5	995.5	996.9	1002.0	994.7
177.5°	1002.0	996.9	997.6	1002.7	996.2
180°	998.3	998.3	998.3	998.3	998.3

(END OF REPORT)