

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: P334667

Luminaire Tested: **S123IP-S805U927-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IP-S805U927-4F0-1E-UDD-1
Description: DEFINE 3 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 805 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2186.3 lumens
Efficiency: N/A
Efficacy: 82.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

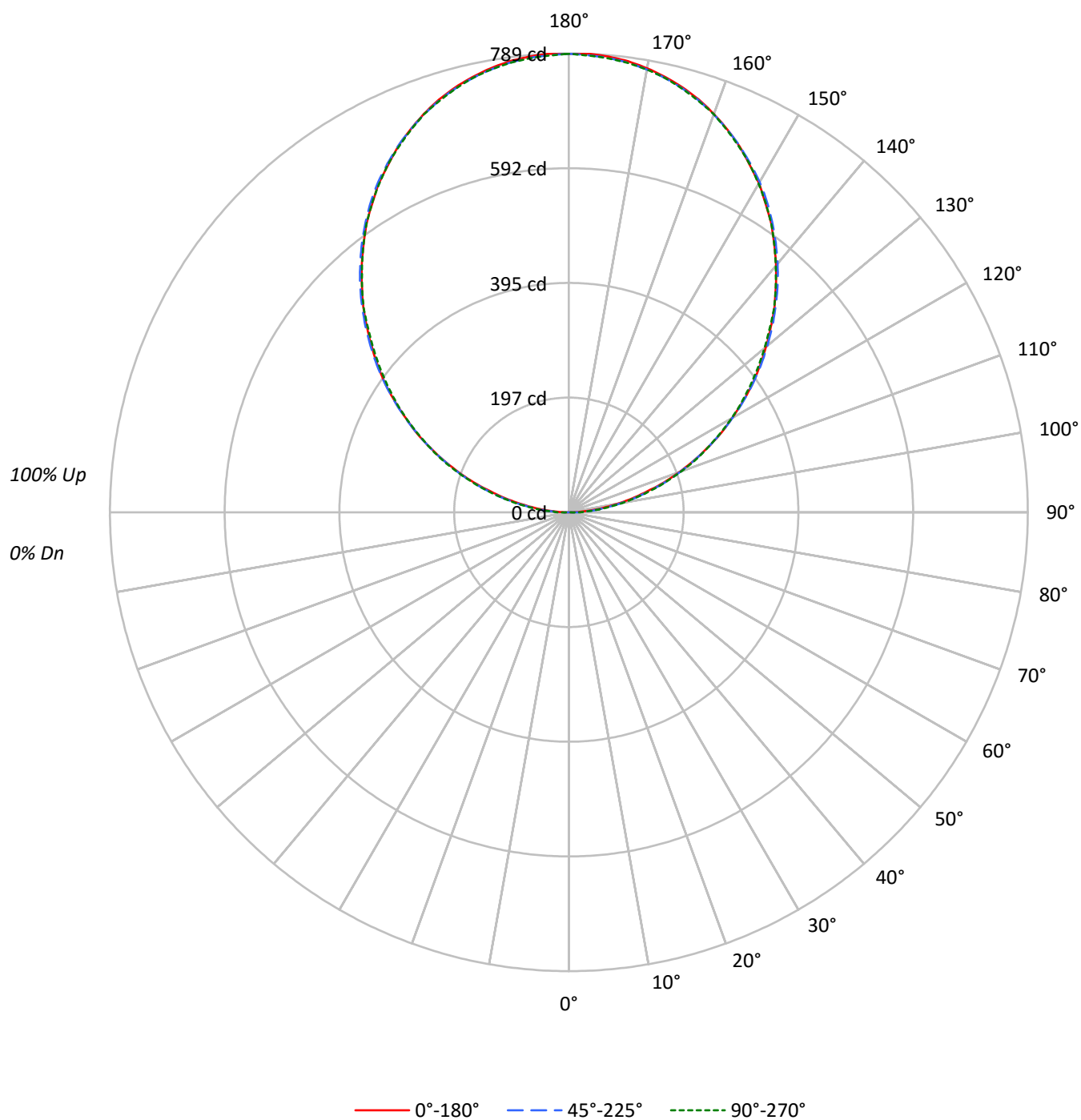
Input Watts (W): 26.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2

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°	1.7	0.1
90°-100°	50.8	2.3
100°-110°	153.6	7.0
110°-120°	261.5	12.0
120°-130°	344.0	15.7
130°-140°	386.7	17.7
140°-150°	380.2	17.4
150°-160°	320.1	14.6
160°-170°	213.1	9.7
170°-180°	74.6	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.7	0.1
90°-120°	465.9	21.3
90°-150°	1576.8	72.1
90°-180°	2185.0	99.9
0°-180°	2186.3	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	7	15	17	19	3
95°	36	41	46	48	48	40
105°	139	141	146	146	147	149
115°	263	265	264	264	264	261
125°	385	387	386	383	381	344
135°	500	504	503	500	499	385
145°	606	608	610	609	606	379
155°	694	694	695	697	693	320
165°	756	754	754	758	754	213
175°	787	784	784	788	784	75
180°	788	788	788	788	788	

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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°	0.6	6.8	14.9	17.3	18.6
92.5°	18.6	22.3	26.0	27.9	26.6
95°	36.5	40.9	45.8	48.3	48.3
97.5°	60.1	63.2	66.9	70.0	69.4
100°	84.2	87.9	91.0	92.9	94.1
102.5°	112.1	114.0	118.3	120.2	119.5
105°	139.4	140.6	146.2	146.2	147.4
107.5°	171.6	172.2	174.7	176.5	175.9
110°	201.3	202.5	203.8	206.2	205.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	232.3	232.9	232.9	236.0	236.0
115°	263.2	265.1	263.8	264.5	263.8
117.5°	294.8	295.4	294.2	294.2	292.3
120°	323.9	327.6	324.5	323.9	322.7
122.5°	354.3	356.8	355.5	353.7	351.8
125°	385.2	387.1	385.9	383.4	380.9
127.5°	413.7	417.4	416.2	412.5	410.0
130°	442.2	447.2	445.3	442.8	438.5
132.5°	470.7	475.7	474.4	471.3	468.2
135°	499.8	503.5	502.9	500.4	499.2
137.5°	526.5	529.6	531.4	528.3	526.5
140°	554.3	557.4	558.0	557.4	553.1
142.5°	579.7	582.8	584.1	583.4	580.3
145°	606.4	607.6	609.5	608.8	606.4
147.5°	629.3	631.7	633.6	633.6	629.9
150°	653.4	654.7	655.9	655.9	652.2
152.5°	673.2	675.1	675.7	677.0	673.9
155°	694.3	694.3	694.9	697.4	693.1
157.5°	712.3	711.6	712.3	714.7	711.0
160°	729.0	727.8	727.8	730.8	728.4
162.5°	743.9	742.0	742.6	745.7	741.4
165°	756.2	754.4	754.4	758.1	753.8
167.5°	766.8	764.3	764.9	768.6	764.9
170°	775.4	773.0	773.0	777.3	773.0
172.5°	782.3	779.8	779.8	783.5	779.2
175°	786.6	784.1	784.1	787.8	783.5
177.5°	789.1	786.6	786.6	790.3	786.0
180°	788.4	788.4	788.4	788.4	788.4

(END OF REPORT)