

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: P334726

Luminaire Tested: **S123IP-S585U835-4F0-1E-UDD**

Issue Date: 3/3/2020

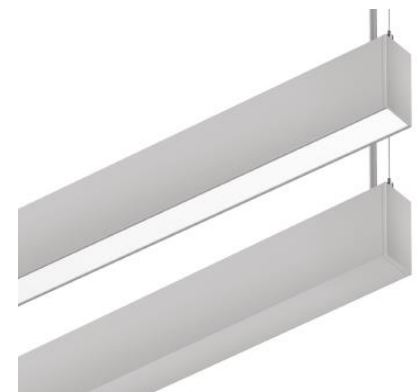
Test Information

Test Method: LM-79-08
Report Number: P334726
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IP-S585U835-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 585 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2341.9 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

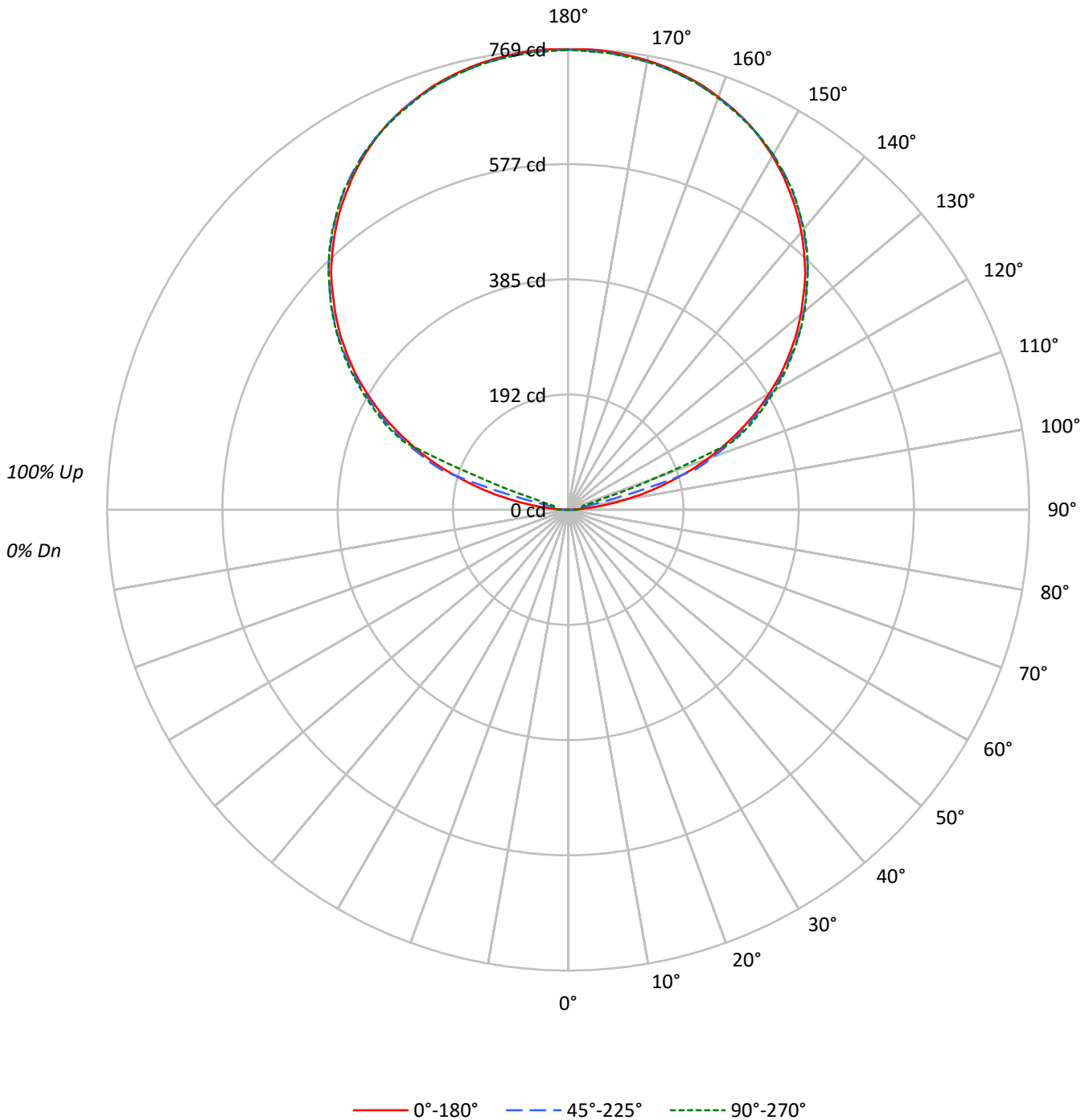
Input Watts (W): 18.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1.5	0.1
90°-100°	27.1	1.2
100°-110°	130.9	5.6
110°-120°	320.8	13.7
120°-130°	407.2	17.4
130°-140°	435.0	18.6
140°-150°	406.8	17.4
150°-160°	328.1	14.0
160°-170°	211.7	9.0
170°-180°	73.0	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.5	0.1
90°-120°	478.7	20.4
90°-150°	1727.6	73.8
90°-180°	2340.0	99.9
0°-180°	2341.9	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	6	14	16	17	2
95°	35	11	18	22	22	42
105°	170	176	125	24	25	180
115°	319	322	327	333	335	315
125°	449	454	456	457	459	402
135°	560	563	565	567	565	431
145°	646	650	651	652	652	404
155°	711	710	711	714	710	328
165°	750	748	748	752	748	212
175°	768	765	765	769	765	73
180°	768	768	768	768	768	



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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	6.3	13.7	16.0	17.1
92.5°	13.1	9.7	14.8	18.8	19.4
95°	34.8	11.4	17.7	21.7	21.7
97.5°	63.3	47.3	18.3	22.8	23.4
100°	96.4	107.8	18.8	23.4	24.0
102.5°	134.0	141.4	42.2	23.4	24.5
105°	170.0	176.2	124.9	24.0	25.1
107.5°	208.2	213.3	221.9	134.0	59.3
110°	246.4	251.0	257.2	238.4	156.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.9	286.9	293.2	298.3	297.2
115°	318.8	322.3	327.4	333.1	335.4
117.5°	354.2	358.2	361.0	365.6	366.2
120°	386.7	391.8	393.5	398.1	398.1
122.5°	419.8	423.8	426.1	428.9	429.5
125°	449.4	454.0	456.3	457.4	458.6
127.5°	479.1	483.7	486.5	488.2	487.1
130°	506.5	511.0	513.3	515.6	514.5
132.5°	532.7	537.3	539.0	541.3	539.6
135°	559.5	562.9	565.2	566.9	565.2
137.5°	582.3	586.9	588.0	590.9	589.7
140°	605.1	608.6	610.3	612.6	611.4
142.5°	626.3	629.7	631.4	633.1	631.4
145°	645.6	649.6	650.8	651.9	651.9
147.5°	664.5	667.3	668.5	669.6	666.7
150°	681.6	683.3	684.4	685.6	683.9
152.5°	697.0	697.5	698.1	700.4	697.5
155°	711.2	710.1	710.7	713.5	710.1
157.5°	722.6	722.6	722.1	725.5	720.9
160°	732.9	732.3	731.8	735.2	731.2
162.5°	742.6	740.9	740.3	744.3	740.9
165°	750.0	748.3	747.7	752.3	748.3
167.5°	756.3	754.0	754.0	758.6	754.0
170°	761.4	759.1	759.1	763.7	759.1
172.5°	764.8	762.0	762.6	767.1	762.0
175°	767.7	764.8	765.4	769.4	764.8
177.5°	768.8	766.0	766.6	771.1	765.4
180°	767.7	767.7	767.7	767.7	767.7

(END OF REPORT)