

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: P335045

Luminaire Tested: **S125IW-S470U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P335045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S125IW-S470U840-4F0-1E-UDD-1
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
WALL MOUNT, 470 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1642.4 lumens
Efficiency: N/A
Efficacy: 188.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')
CIE Type: Indirect

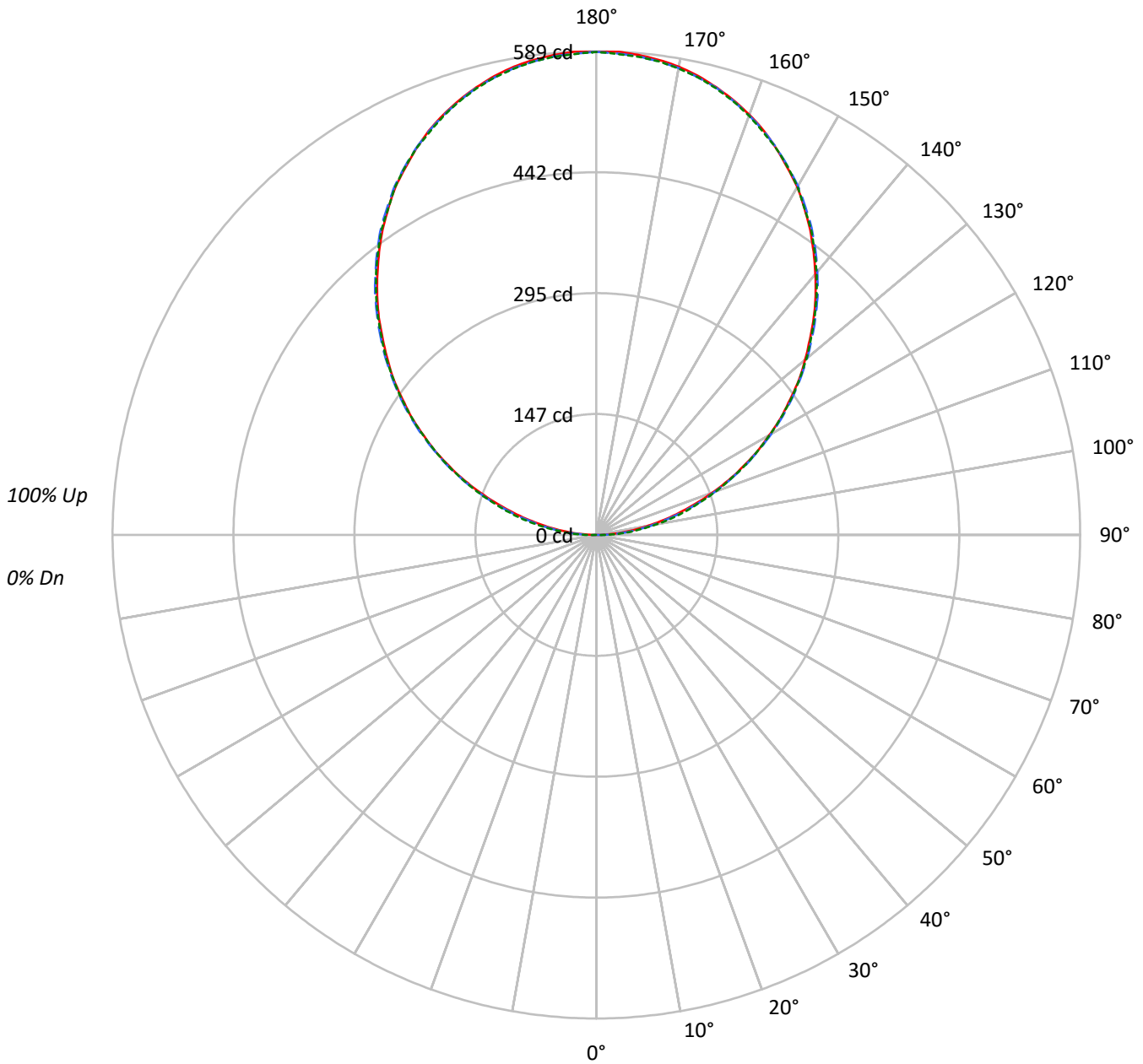
Input Watts (W): 8.7
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P335045

CATALOG NUMBER: S125IW-S470U840-4F0-1E-UDD-1

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270°



TEST NUMBER: P335045

CATALOG NUMBER: S125IW-S470U840-4F0-1E-UDD-1

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: P335045

CATALOG NUMBER: S125IW-S470U840-4F0-1E-UDD-1

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°	0.9	0.1
90°-100°	39.1	2.4
100°-110°	116.2	7.1
110°-120°	197.0	12.0
120°-130°	259.4	15.8
130°-140°	290.7	17.7
140°-150°	284.9	17.3
150°-160°	239.3	14.6
160°-170°	159.1	9.7
170°-180°	55.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.1
90°-120°	352.3	21.5
90°-150°	1187.4	72.3
90°-180°	1641.0	99.9
0°-180°	1642.4	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°	0	4	7	10	11	2
95°	30	31	35	38	39	31
105°	104	107	109	112	114	111
115°	197	199	200	200	199	195
125°	288	291	291	290	290	258
135°	374	377	378	378	376	289
145°	454	455	457	457	455	284
155°	519	519	520	521	519	239
165°	564	563	564	566	563	159
175°	587	585	585	588	584	56
180°	588	588	588	588	588	



TEST NUMBER: P335045

CATALOG NUMBER: S125IW-S470U840-4F0-1E-UDD-1

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°	0.5	4.1	7.3	9.6	11.0
92.5°	13.7	16.0	20.1	23.3	24.3
95°	29.8	30.7	35.2	38.4	39.4
97.5°	45.8	46.2	52.6	55.4	55.8
100°	64.1	64.1	70.0	74.1	75.1
102.5°	83.8	86.0	88.3	92.9	94.3
105°	104.4	106.6	109.4	112.1	113.5
107.5°	126.8	129.1	131.4	132.7	132.7
110°	150.1	152.4	153.8	155.2	154.7



TEST NUMBER: P335045

CATALOG NUMBER: S125IW-S470U840-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	173.9	174.8	176.7	177.1	176.2
115°	197.3	199.1	200.0	199.6	199.1
117.5°	221.1	221.5	222.4	222.9	221.1
120°	243.0	245.3	245.8	245.8	244.0
122.5°	266.8	267.3	268.7	268.2	266.8
125°	287.9	290.6	291.1	290.2	289.7
127.5°	311.2	312.6	313.1	312.6	311.7
130°	331.8	334.1	335.0	334.6	333.7
132.5°	352.4	356.6	356.1	355.6	354.3
135°	374.4	377.2	377.6	377.6	375.8
137.5°	395.0	397.7	398.7	399.1	396.8
140°	414.7	417.0	418.3	419.3	417.0
142.5°	434.4	436.2	438.0	438.5	436.2
145°	453.6	455.4	456.8	456.8	455.4
147.5°	471.4	472.8	473.7	475.1	471.4
150°	489.3	488.8	490.7	490.7	489.7
152.5°	503.9	504.9	505.3	506.7	504.9
155°	519.0	519.0	519.5	521.3	519.0
157.5°	532.8	531.9	532.3	534.1	530.9
160°	544.7	543.3	543.8	545.6	543.3
162.5°	555.2	554.3	554.3	556.6	553.8
165°	564.4	563.4	563.9	565.7	563.0
167.5°	572.6	570.8	570.8	573.5	570.8
170°	579.0	577.2	577.2	579.9	576.7
172.5°	583.6	581.7	581.7	584.5	581.7
175°	586.8	585.0	585.0	587.7	584.5
177.5°	589.1	587.2	586.8	589.5	586.3
180°	588.2	588.2	588.2	588.2	588.2

(END OF REPORT)