

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: P335048

Luminaire Tested: **S125IW-S1340U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335048  
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-S1340U840-4F0-1E-UDD-1  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
WALL MOUNT, 1340 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4700.5 lumens  
Efficiency: N/A  
Efficacy: 182.9 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

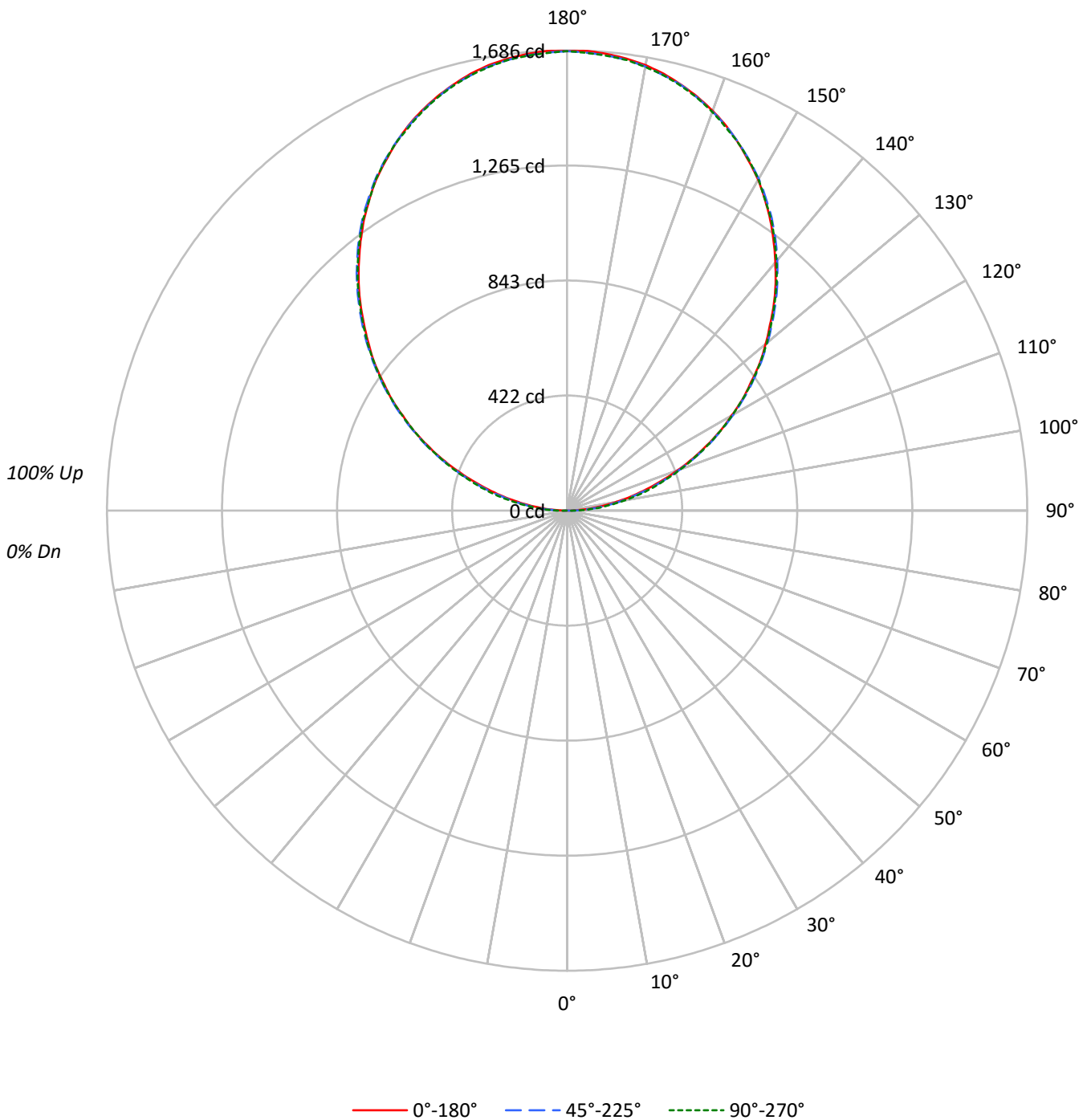
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2.6	0.1
90°-100°	111.9	2.4
100°-110°	332.5	7.1
110°-120°	564.0	12.0
120°-130°	742.4	15.8
130°-140°	832.0	17.7
140°-150°	815.5	17.3
150°-160°	685.0	14.6
160°-170°	455.3	9.7
170°-180°	159.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.6	0.1
90°-120°	1008.4	21.5
90°-150°	3398.3	72.3
90°-180°	4698.0	99.9
0°-180°	4700.5	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	12	21	28	31	6
95°	85	88	101	110	113	89
105°	299	305	313	321	325	318
115°	565	570	572	571	570	559
125°	824	832	833	830	829	738
135°	1072	1079	1081	1081	1076	826
145°	1298	1303	1307	1307	1303	812
155°	1486	1486	1487	1492	1486	684
165°	1615	1613	1614	1619	1611	456
175°	1679	1674	1674	1682	1673	160
180°	1683	1683	1683	1683	1683	



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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°	1.3	11.8	21.0	27.5	31.4
92.5°	39.3	45.8	57.6	66.8	69.4
95°	85.1	87.8	100.9	110.0	112.7
97.5°	131.0	132.3	150.6	158.5	159.8
100°	183.4	183.4	200.4	212.2	214.8
102.5°	239.7	246.3	252.8	265.9	269.9
105°	298.7	305.2	313.1	320.9	324.9
107.5°	362.9	369.4	376.0	379.9	379.9
110°	429.7	436.2	440.1	444.1	442.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	497.8	500.4	505.6	507.0	504.3
115°	564.6	569.8	572.5	571.1	569.8
117.5°	632.7	634.0	636.6	638.0	632.7
120°	695.6	702.1	703.4	703.4	698.2
122.5°	763.7	765.0	768.9	767.6	763.7
125°	824.0	831.8	833.1	830.5	829.2
127.5°	890.8	894.7	896.0	894.7	892.1
130°	949.7	956.3	958.9	957.6	955.0
132.5°	1008.7	1020.5	1019.1	1017.8	1013.9
135°	1071.5	1079.4	1080.7	1080.7	1075.5
137.5°	1130.5	1138.4	1141.0	1142.3	1135.7
140°	1186.8	1193.4	1197.3	1199.9	1193.4
142.5°	1243.2	1248.4	1253.6	1254.9	1248.4
145°	1298.2	1303.4	1307.3	1307.3	1303.4
147.5°	1349.3	1353.2	1355.8	1359.7	1349.3
150°	1400.3	1399.0	1404.3	1404.3	1401.7
152.5°	1442.3	1444.9	1446.2	1450.1	1444.9
155°	1485.5	1485.5	1486.8	1492.0	1485.5
157.5°	1524.8	1522.2	1523.5	1528.7	1519.6
160°	1558.9	1554.9	1556.2	1561.5	1554.9
162.5°	1589.0	1586.4	1586.4	1592.9	1585.1
165°	1615.2	1612.6	1613.9	1619.1	1611.3
167.5°	1638.8	1633.5	1633.5	1641.4	1633.5
170°	1657.1	1651.9	1651.9	1659.7	1650.5
172.5°	1670.2	1665.0	1665.0	1672.8	1665.0
175°	1679.4	1674.1	1674.1	1682.0	1672.8
177.5°	1685.9	1680.7	1679.4	1687.2	1678.1
180°	1683.3	1683.3	1683.3	1683.3	1683.3

(END OF REPORT)