

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: P335138

Luminaire Tested: **S125IW-S1340U940-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P335138  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S125IW-S1340U940-4F0-1E-UDD  
Description: DEFINE 5 INDIRECT LED LUMINAIRE, NO LENS  
WALL MOUNT, 1340 LUMENS PER FOOT  
Light Source: 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

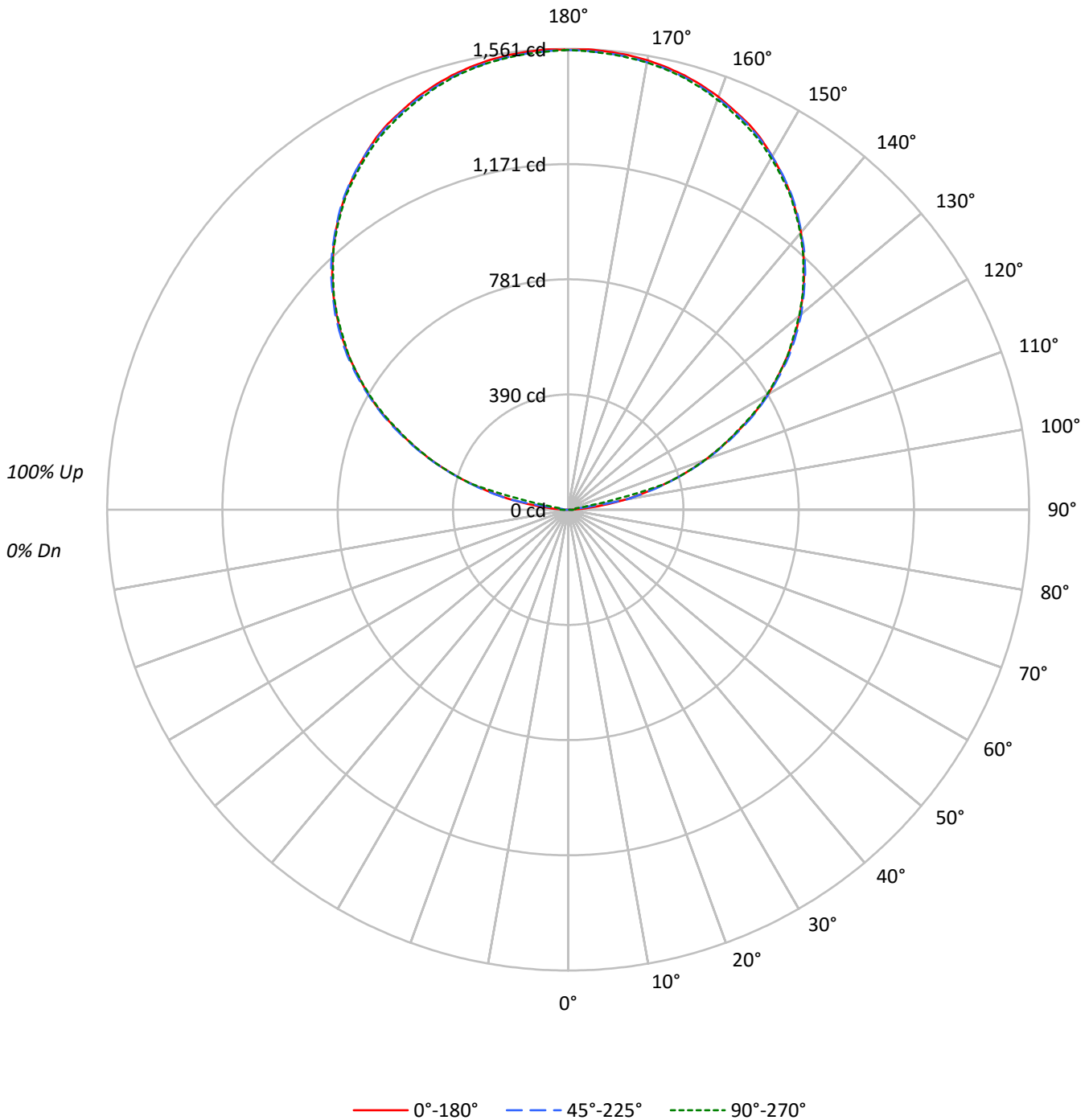
Lumens per Lamp: N/A  
Luminaire Lumens: 4786.5 lumens  
Efficiency: N/A  
Efficacy: 186.2 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.42' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	2.3	0.0
90°-100°	52.9	1.1
100°-110°	351.5	7.3
110°-120°	633.0	13.2
120°-130°	812.5	17.0
130°-140°	873.8	18.3
140°-150°	820.1	17.1
150°-160°	663.4	13.9
160°-170°	429.0	9.0
170°-180°	148.0	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.0
90°-120°	1037.3	21.7
90°-150°	3543.8	74.0
90°-180°	4784.0	99.9
0°-180°	4786.5	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	10	18	24	28	3
95°	66	62	18	24	24	81
105°	339	344	344	344	343	360
115°	637	643	644	640	633	632
125°	906	914	914	910	906	810
135°	1130	1137	1135	1133	1126	871
145°	1310	1313	1313	1314	1307	820
155°	1443	1436	1439	1442	1433	665
165°	1523	1516	1517	1524	1515	430
175°	1558	1550	1552	1561	1550	148
180°	1558	1558	1558	1558	1558	



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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°	1.2	10.4	18.5	24.2	27.7
92.5°	21.9	11.5	18.5	24.2	25.4
95°	65.8	62.3	18.5	24.2	24.2
97.5°	123.5	130.5	20.8	23.1	24.2
100°	192.8	196.3	200.9	28.9	24.2
102.5°	263.2	267.9	270.2	272.5	175.5
105°	339.4	344.1	344.1	344.1	342.9
107.5°	417.9	417.9	420.3	421.4	416.8
110°	494.1	494.1	496.5	493.0	494.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	565.7	569.2	570.3	565.7	563.4
115°	637.3	643.1	644.2	639.6	632.7
117.5°	712.4	712.4	717.0	710.0	707.7
120°	781.6	780.5	783.9	781.6	775.9
122.5°	842.8	848.6	849.7	847.4	840.5
125°	906.3	914.4	914.4	909.8	906.3
127.5°	967.5	973.3	972.1	969.8	960.6
130°	1022.9	1028.7	1029.8	1026.4	1020.6
132.5°	1078.3	1085.3	1081.8	1081.8	1076.0
135°	1130.3	1137.2	1134.9	1132.6	1125.7
137.5°	1178.8	1185.7	1183.4	1183.4	1177.6
140°	1226.1	1228.4	1227.3	1229.6	1222.7
142.5°	1268.8	1270.0	1272.3	1272.3	1265.4
145°	1310.4	1312.7	1312.7	1313.9	1306.9
147.5°	1347.3	1347.3	1348.5	1349.7	1341.6
150°	1382.0	1379.7	1382.0	1384.3	1375.1
152.5°	1415.5	1409.7	1412.0	1414.3	1406.2
155°	1443.2	1436.2	1438.6	1442.0	1432.8
157.5°	1465.1	1461.6	1461.6	1465.1	1455.9
160°	1488.2	1481.3	1482.4	1487.0	1477.8
162.5°	1506.7	1499.7	1500.9	1507.8	1497.4
165°	1522.8	1515.9	1517.1	1524.0	1514.8
167.5°	1535.5	1528.6	1529.8	1537.8	1527.5
170°	1545.9	1537.8	1539.0	1548.2	1537.8
172.5°	1552.9	1544.8	1547.1	1555.2	1544.8
175°	1557.5	1550.5	1551.7	1560.9	1550.5
177.5°	1560.9	1554.0	1555.2	1563.2	1554.0
180°	1557.5	1557.5	1557.5	1557.5	1557.5

(END OF REPORT)