

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: P334489

Luminaire Tested: **S122IP-S1080U840-4F0-1E-UDD-1**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S122IP-S1080U840-4F0-1E-UDD-1  
Description: DEFINE 2 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT MOUNT, 1080 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3890.3 lumens  
Efficiency: N/A  
Efficacy: 92.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Indirect

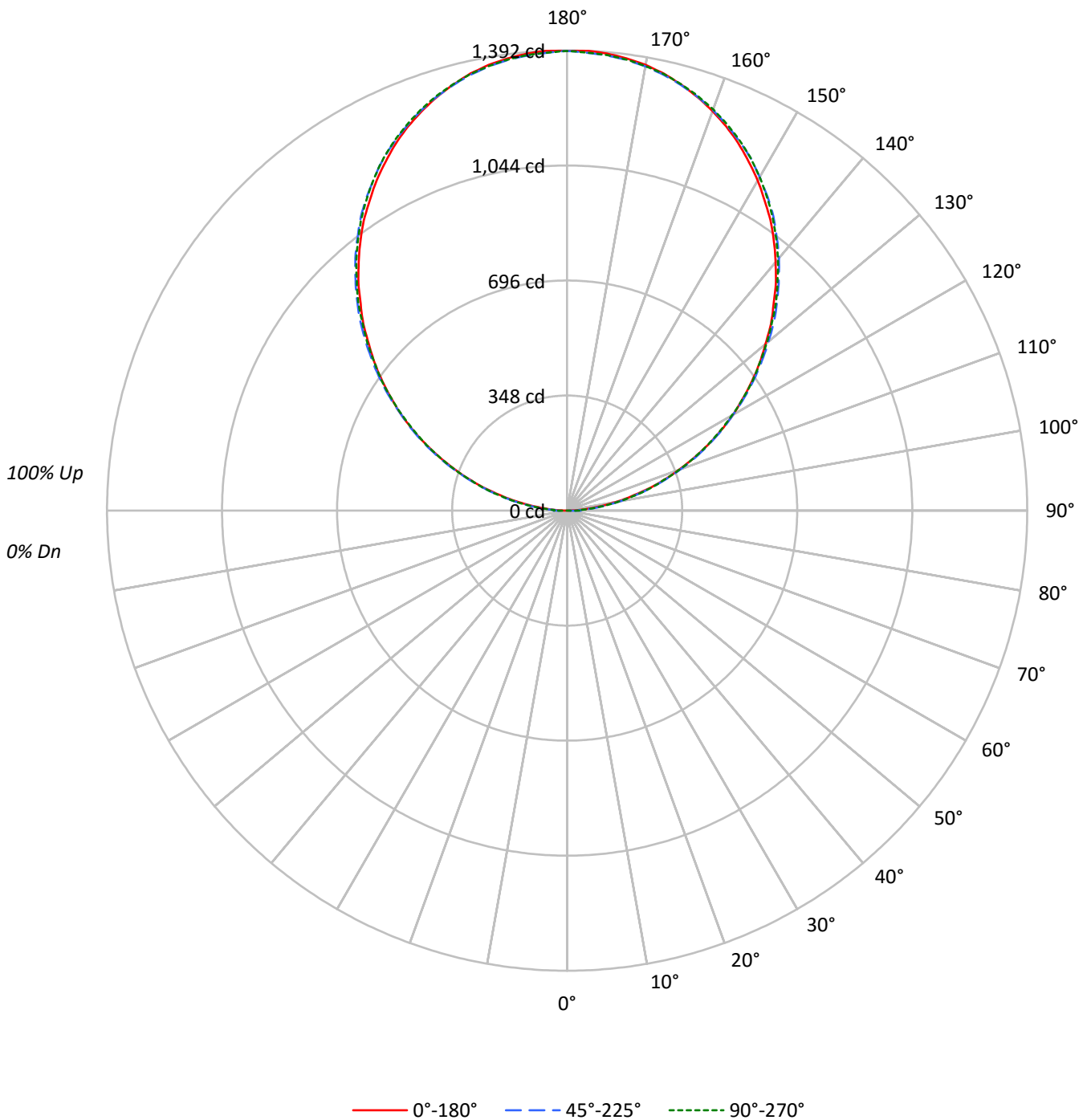
Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4.0	0.1
90°-100°	86.0	2.2
100°-110°	273.4	7.0
110°-120°	467.8	12.0
120°-130°	615.2	15.8
130°-140°	690.5	17.7
140°-150°	677.2	17.4
150°-160°	568.0	14.6
160°-170°	376.7	9.7
170°-180°	131.7	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	4.0	0.1
90°-120°	827.1	21.3
90°-150°	2809.9	72.2
90°-180°	3886.0	99.9
0°-180°	3890.3	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	15	41	39	40	4
95°	61	73	75	75	73	68
105°	252	256	258	260	260	266
115°	469	476	474	473	469	464
125°	683	693	690	686	685	610
135°	883	896	899	897	894	683
145°	1072	1080	1087	1089	1084	670
155°	1226	1229	1233	1239	1235	564
165°	1334	1333	1333	1341	1335	376
175°	1388	1384	1382	1390	1383	132
180°	1390	1390	1390	1390	1390	



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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	15.2	41.1	38.7	39.9
92.5°	25.8	35.2	36.4	37.5	37.5
95°	61.0	72.7	75.1	75.1	72.7
97.5°	102.1	112.6	117.3	117.3	117.3
100°	149.0	158.4	161.9	161.9	160.7
102.5°	198.2	205.3	210.0	211.1	210.0
105°	252.2	255.7	258.1	260.4	260.4
107.5°	306.2	310.9	310.9	312.0	306.2
110°	357.8	364.8	364.8	364.8	361.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	414.1	421.1	419.9	416.4	414.1
115°	469.2	476.3	473.9	472.7	469.2
117.5°	524.4	533.7	527.9	524.4	520.8
120°	579.5	588.9	579.5	579.5	576.0
122.5°	629.9	641.7	635.8	632.3	629.9
125°	682.7	693.3	689.7	686.2	685.1
127.5°	734.3	747.2	742.5	737.8	734.3
130°	782.4	797.7	795.3	793.0	788.3
132.5°	836.4	848.1	849.3	843.4	839.9
135°	883.3	896.2	898.6	897.4	893.9
137.5°	934.9	945.5	947.8	946.6	942.0
140°	980.7	991.2	997.1	997.1	992.4
142.5°	1027.6	1038.1	1041.7	1042.8	1038.1
145°	1072.2	1080.4	1087.4	1088.6	1083.9
147.5°	1112.0	1122.6	1127.3	1129.6	1124.9
150°	1153.1	1160.1	1164.8	1168.4	1164.8
152.5°	1189.5	1196.5	1202.4	1207.1	1202.4
155°	1225.8	1229.3	1232.9	1238.7	1235.2
157.5°	1257.5	1259.8	1262.2	1270.4	1264.5
160°	1285.7	1288.0	1289.2	1296.2	1291.5
162.5°	1311.5	1311.5	1312.6	1320.8	1315.0
165°	1333.7	1332.6	1332.6	1340.8	1334.9
167.5°	1353.7	1350.2	1350.2	1358.4	1352.5
170°	1368.9	1365.4	1364.2	1372.5	1365.4
172.5°	1379.5	1376.0	1374.8	1383.0	1376.0
175°	1387.7	1384.2	1381.8	1390.1	1383.0
177.5°	1392.4	1388.9	1386.5	1393.6	1386.5
180°	1390.1	1390.1	1390.1	1390.1	1390.1

(END OF REPORT)