

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: P334592

Luminaire Tested: **S122IW-S970U840-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334592
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S122IW-S970U840-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
WALL MOUNT, 970 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

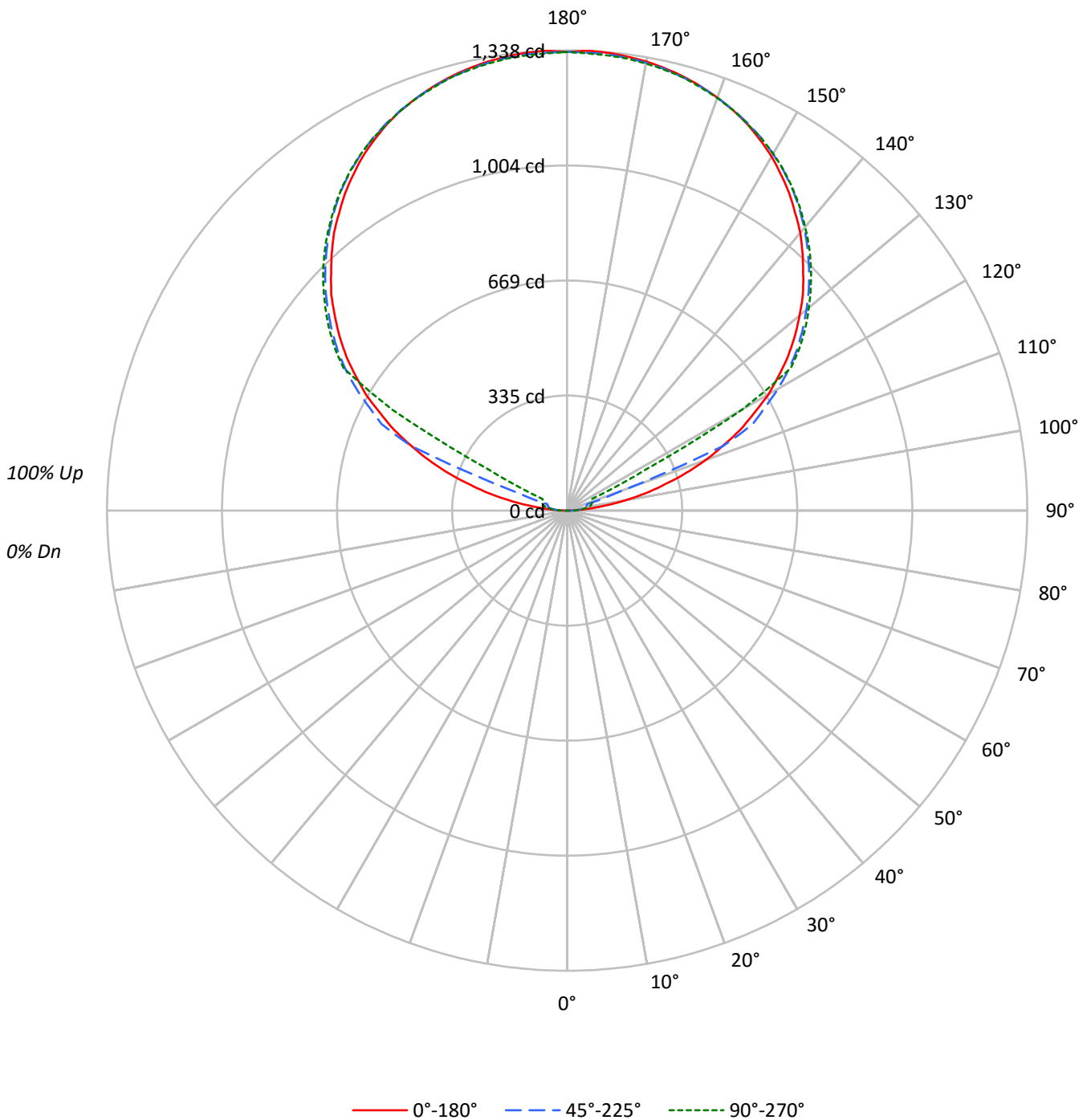
Lumens per Lamp: N/A
Luminaire Lumens: 3911.9 lumens
Efficiency: N/A
Efficacy: 199.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 19.6
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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CATALOG NUMBER: S122IW-S970U840-4F0-1E-UDD

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	0.1
90°-100°	44.0	1.1
100°-110°	163.9	4.2
110°-120°	434.8	11.1
120°-130°	721.1	18.4
130°-140°	765.9	19.6
140°-150°	711.9	18.2
150°-160°	572.3	14.6
160°-170°	368.8	9.4
170°-180°	126.9	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.3	0.1
90°-120°	642.7	16.4
90°-150°	2841.5	72.6
90°-180°	3910.0	100.0
0°-180°	3911.9	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	12	19	24	26	4
95°	63	31	38	42	42	74
105°	293	322	59	70	73	313
115°	555	571	595	149	79	546
125°	784	797	815	822	825	700
135°	971	986	995	1004	1003	750
145°	1126	1125	1142	1148	1144	704
155°	1240	1231	1243	1249	1241	571
165°	1307	1301	1304	1310	1304	369
175°	1336	1330	1332	1338	1329	127
180°	1334	1334	1334	1334	1334	



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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°	1.0	11.6	19.3	24.1	26.1
92.5°	24.1	20.3	23.2	25.1	26.1
95°	62.7	30.9	37.6	42.5	41.5
97.5°	112.9	33.8	49.2	52.1	53.1
100°	170.8	38.6	55.0	62.7	64.7
102.5°	234.5	232.6	56.9	67.5	70.4
105°	293.3	322.3	58.9	69.5	73.3
107.5°	361.9	386.0	60.8	71.4	75.3
110°	427.5	447.7	168.9	72.4	76.2



TEST NUMBER: P334592

CATALOG NUMBER: S122IW-S970U840-4F0-1E-UDD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	489.2	506.6	490.2	74.3	77.2
115°	554.9	571.3	595.4	148.6	79.1
117.5°	611.8	631.1	647.5	509.5	256.7
120°	675.5	689.9	707.3	718.9	588.6
122.5°	729.5	744.9	764.2	770.0	771.0
125°	784.5	797.1	815.4	822.1	825.0
127.5°	834.7	848.2	862.7	872.3	873.3
130°	882.0	897.4	908.0	918.6	917.7
132.5°	930.2	942.8	953.4	962.1	961.1
135°	970.7	986.2	994.9	1004.5	1002.6
137.5°	1013.2	1024.8	1034.4	1044.1	1041.2
140°	1054.7	1062.4	1073.0	1081.7	1076.9
142.5°	1089.4	1096.2	1108.7	1116.5	1111.6
145°	1126.1	1125.1	1141.5	1148.3	1143.5
147.5°	1157.9	1155.1	1171.5	1176.3	1172.4
150°	1188.8	1182.1	1197.5	1203.3	1198.5
152.5°	1214.9	1207.2	1221.6	1227.4	1220.7
155°	1240.0	1231.3	1242.9	1248.7	1240.9
157.5°	1260.2	1252.5	1261.2	1268.0	1260.2
160°	1277.6	1271.8	1277.6	1283.4	1276.6
162.5°	1293.0	1287.3	1292.1	1298.8	1290.1
165°	1306.6	1300.8	1303.7	1310.4	1303.7
167.5°	1317.2	1311.4	1314.3	1321.0	1312.3
170°	1325.9	1320.1	1322.0	1328.7	1320.1
172.5°	1331.6	1325.9	1327.8	1334.5	1325.9
175°	1336.5	1329.7	1331.6	1338.4	1328.7
177.5°	1338.4	1331.6	1332.6	1339.4	1330.7
180°	1333.6	1333.6	1333.6	1333.6	1333.6

(END OF REPORT)