

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: P334579

Luminaire Tested: **S122IP-S1080U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334579
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: S122IP-S1080U940-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1080 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

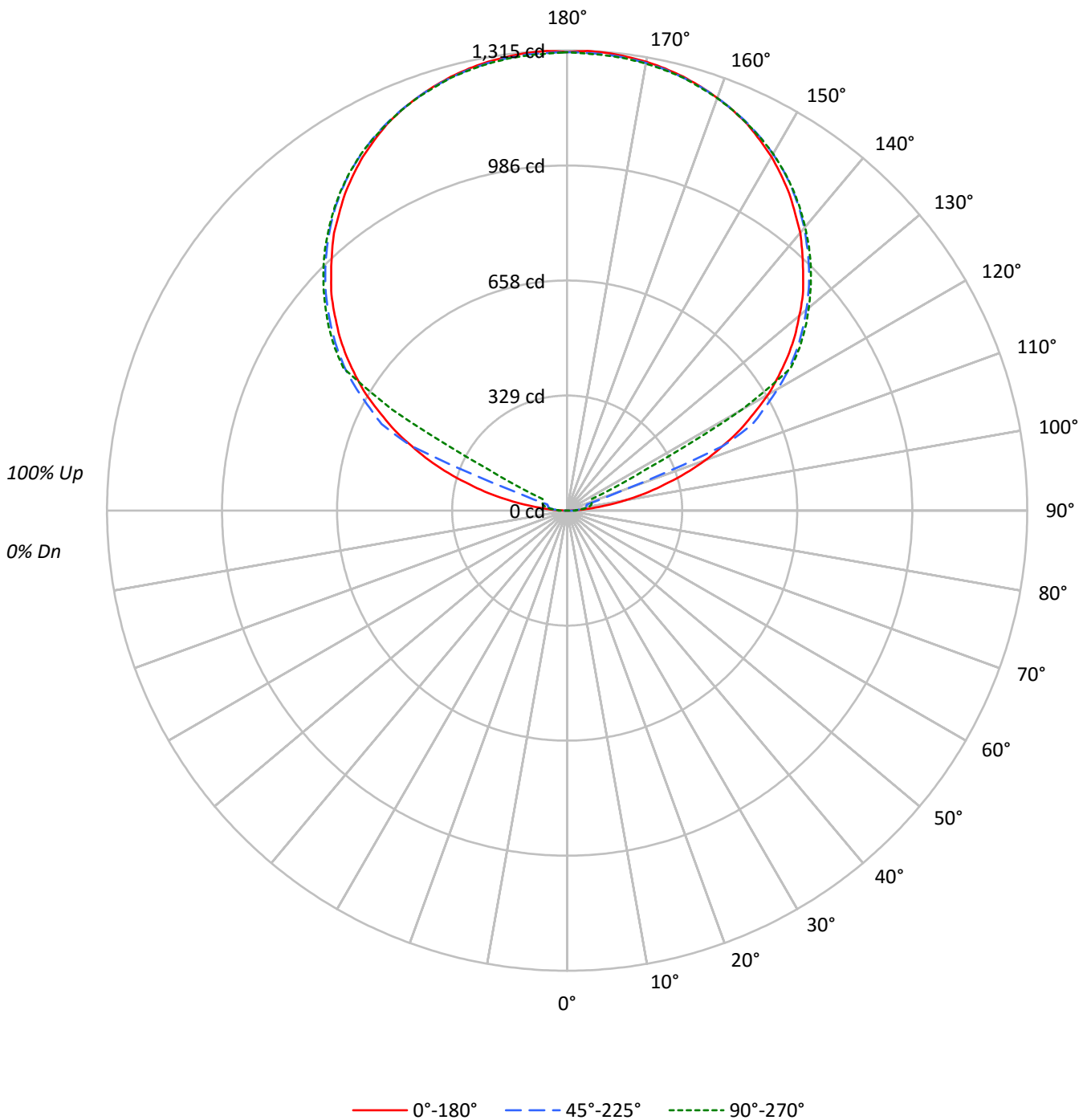
Lumens per Lamp: N/A
Luminaire Lumens: 3842.9 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (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



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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	0.1
90°-100°	43.2	1.1
100°-110°	161.0	4.2
110°-120°	427.1	11.1
120°-130°	708.3	18.4
130°-140°	752.4	19.6
140°-150°	699.3	18.2
150°-160°	562.2	14.6
160°-170°	362.3	9.4
170°-180°	124.7	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°	631.3	16.4
90°-150°	2791.4	72.6
90°-180°	3841.0	100.0
0°-180°	3842.9	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	11	19	24	26	3
95°	62	30	37	42	41	73
105°	288	317	58	68	72	308
115°	545	561	585	146	78	537
125°	771	783	801	808	810	687
135°	954	969	977	987	985	737
145°	1106	1105	1121	1128	1123	692
155°	1218	1210	1221	1227	1219	561
165°	1284	1278	1281	1287	1281	363
175°	1313	1306	1308	1315	1305	125
180°	1310	1310	1310	1310	1310	



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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°	0.9	11.4	19.0	23.7	25.6
92.5°	23.7	19.9	22.8	24.6	25.6
95°	61.6	30.3	37.0	41.7	40.8
97.5°	110.9	33.2	48.3	51.2	52.1
100°	167.8	37.9	54.0	61.6	63.5
102.5°	230.3	228.5	55.9	66.4	69.2
105°	288.2	316.6	57.8	68.3	72.0
107.5°	355.5	379.2	59.7	70.1	73.9
110°	419.9	439.8	165.9	71.1	74.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	480.6	497.7	481.5	73.0	75.8
115°	545.1	561.2	584.9	146.0	77.7
117.5°	601.0	619.9	636.1	500.5	252.1
120°	663.5	677.8	694.8	706.2	578.2
122.5°	716.6	731.8	750.8	756.4	757.4
125°	770.7	783.0	801.0	807.6	810.5
127.5°	820.0	833.2	847.4	856.9	857.9
130°	866.4	881.6	892.0	902.4	901.5
132.5°	913.8	926.1	936.6	945.1	944.1
135°	953.6	968.8	977.3	986.8	984.9
137.5°	995.3	1006.7	1016.2	1025.7	1022.8
140°	1036.1	1043.7	1054.1	1062.6	1057.9
142.5°	1070.2	1076.8	1089.2	1096.8	1092.0
145°	1106.2	1105.3	1121.4	1128.0	1123.3
147.5°	1137.5	1134.7	1150.8	1155.5	1151.7
150°	1167.8	1161.2	1176.4	1182.1	1177.3
152.5°	1193.4	1185.9	1200.1	1205.8	1199.1
155°	1218.1	1209.6	1220.9	1226.6	1219.0
157.5°	1238.0	1230.4	1238.9	1245.6	1238.0
160°	1255.1	1249.4	1255.1	1260.7	1254.1
162.5°	1270.2	1264.5	1269.3	1275.9	1267.4
165°	1283.5	1277.8	1280.7	1287.3	1280.7
167.5°	1293.9	1288.2	1291.1	1297.7	1289.2
170°	1302.5	1296.8	1298.7	1305.3	1296.8
172.5°	1308.1	1302.5	1304.3	1311.0	1302.5
175°	1312.9	1306.2	1308.1	1314.8	1305.3
177.5°	1314.8	1308.1	1309.1	1315.7	1307.2
180°	1310.0	1310.0	1310.0	1310.0	1310.0

(END OF REPORT)