

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: P334574

Luminaire Tested: **S122IP-S1080U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334574
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-S1080U935-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1080 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

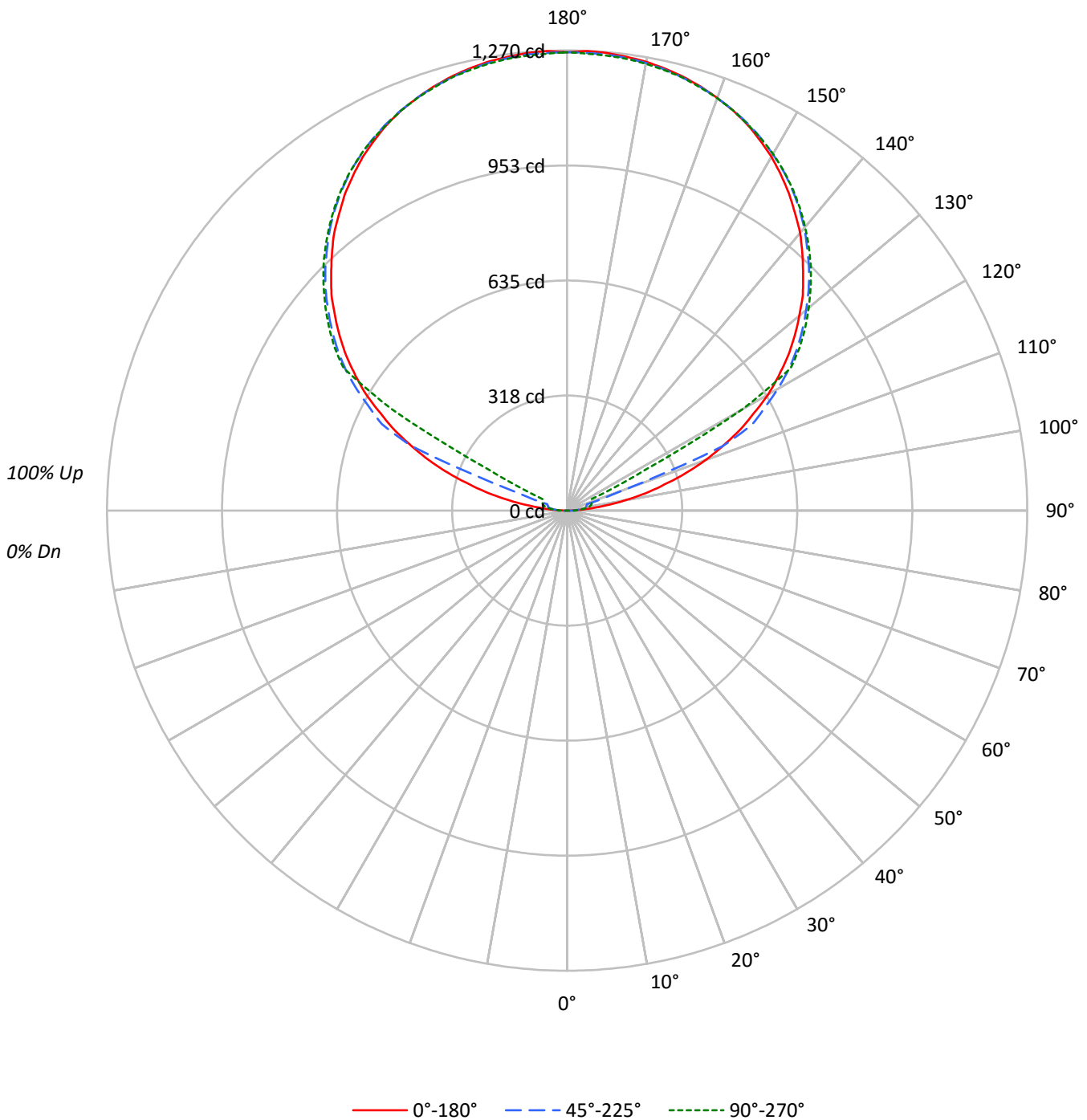
Lumens per Lamp: N/A
Luminaire Lumens: 3710.5 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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°	2.2	0.1
90°-100°	41.7	1.1
100°-110°	155.5	4.2
110°-120°	412.4	11.1
120°-130°	683.9	18.4
130°-140°	726.5	19.6
140°-150°	675.2	18.2
150°-160°	542.8	14.6
160°-170°	349.8	9.4
170°-180°	120.4	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.2	0.1
90°-120°	609.6	16.4
90°-150°	2695.3	72.6
90°-180°	3708.0	99.9
0°-180°	3710.5	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	11	18	23	25	3
95°	60	29	36	40	39	70
105°	278	306	56	66	70	297
115°	526	542	565	141	75	518
125°	744	756	773	780	783	664
135°	921	935	944	953	951	711
145°	1068	1067	1083	1089	1085	668
155°	1176	1168	1179	1184	1177	542
165°	1239	1234	1236	1243	1236	350
175°	1268	1261	1263	1270	1260	121
180°	1265	1265	1265	1265	1265	



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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	11.0	18.3	22.9	24.7
92.5°	22.9	19.2	22.0	23.8	24.7
95°	59.5	29.3	35.7	40.3	39.4
97.5°	107.1	32.0	46.7	49.4	50.3
100°	162.0	36.6	52.2	59.5	61.3
102.5°	222.4	220.6	54.0	64.1	66.8
105°	278.2	305.7	55.8	65.9	69.6
107.5°	343.2	366.1	57.7	67.7	71.4
110°	405.5	424.7	160.2	68.6	72.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	464.0	480.5	465.0	70.5	73.2
115°	526.3	541.8	564.7	141.0	75.1
117.5°	580.3	598.6	614.2	483.3	243.5
120°	640.7	654.4	670.9	681.9	558.3
122.5°	692.0	706.6	724.9	730.4	731.3
125°	744.1	756.0	773.4	779.8	782.6
127.5°	791.7	804.5	818.3	827.4	828.3
130°	836.6	851.2	861.3	871.3	870.4
132.5°	882.3	894.2	904.3	912.5	911.6
135°	920.8	935.4	943.7	952.8	951.0
137.5°	961.0	972.0	981.2	990.3	987.6
140°	1000.4	1007.7	1017.8	1026.0	1021.5
142.5°	1033.4	1039.8	1051.7	1059.0	1054.4
145°	1068.1	1067.2	1082.8	1089.2	1084.6
147.5°	1098.3	1095.6	1111.2	1115.7	1112.1
150°	1127.6	1121.2	1135.9	1141.4	1136.8
152.5°	1152.3	1145.0	1158.7	1164.2	1157.8
155°	1176.1	1167.9	1178.9	1184.4	1177.1
157.5°	1195.4	1188.0	1196.3	1202.7	1195.4
160°	1211.8	1206.3	1211.8	1217.3	1210.9
162.5°	1226.5	1221.0	1225.6	1232.0	1223.7
165°	1239.3	1233.8	1236.5	1243.0	1236.5
167.5°	1249.4	1243.9	1246.6	1253.0	1244.8
170°	1257.6	1252.1	1253.9	1260.3	1252.1
172.5°	1263.1	1257.6	1259.4	1265.8	1257.6
175°	1267.7	1261.3	1263.1	1269.5	1260.3
177.5°	1269.5	1263.1	1264.0	1270.4	1262.2
180°	1264.9	1264.9	1264.9	1264.9	1264.9

(END OF REPORT)