

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: P334554

Luminaire Tested: **S122IP-S1080U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334554
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-S1080U835-4F0-1E-UDD
Description: DEFINE 2 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1080 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

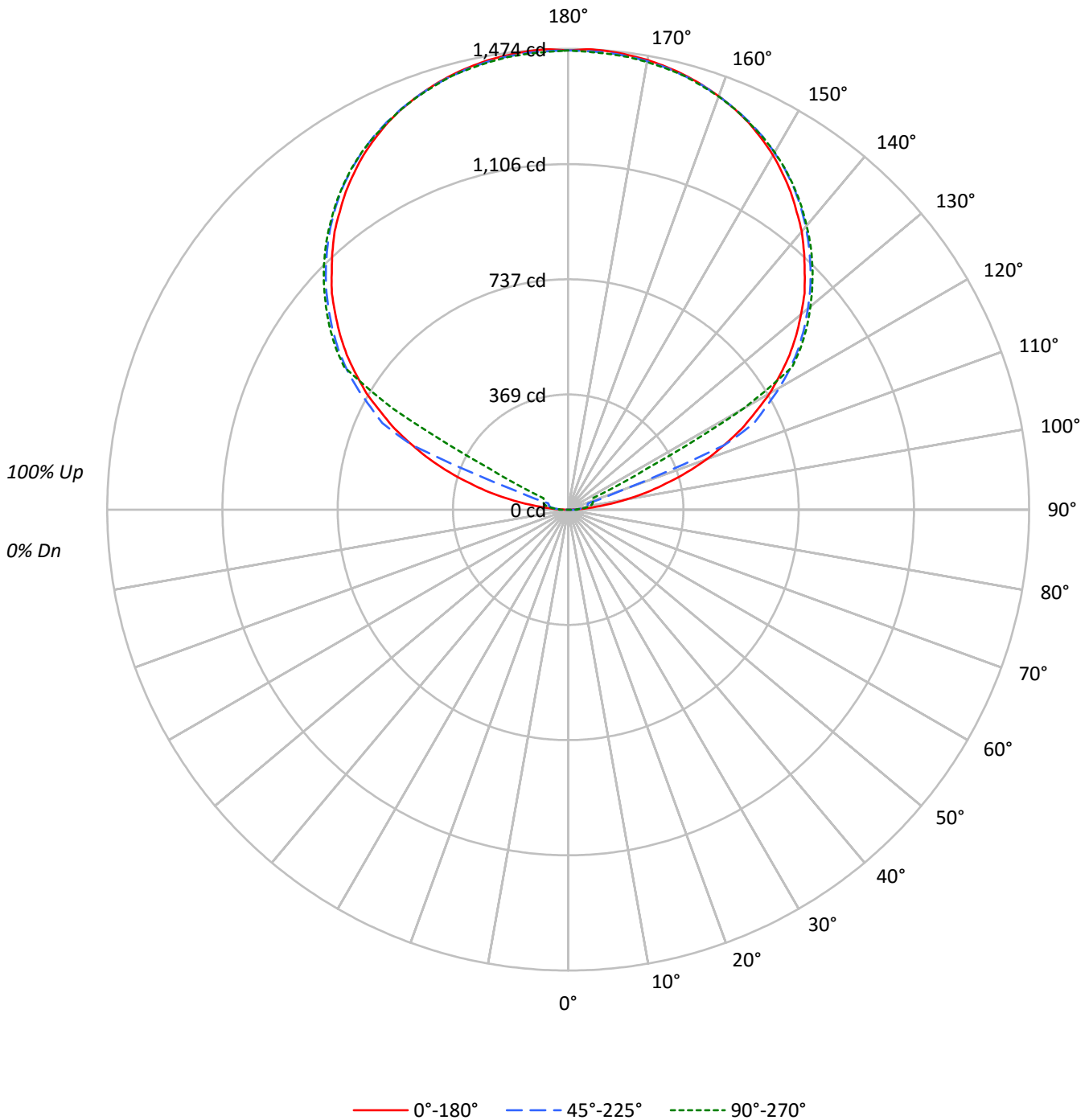
Lumens per Lamp: N/A
Luminaire Lumens: 4309.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')
CIE Type: Indirect

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°	2.6	0.1
90°-100°	48.5	1.1
100°-110°	180.6	4.2
110°-120°	479.0	11.1
120°-130°	794.4	18.4
130°-140°	843.8	19.6
140°-150°	784.2	18.2
150°-160°	630.5	14.6
160°-170°	406.3	9.4
170°-180°	139.8	3.2
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.6	0.1
90°-120°	708.0	16.4
90°-150°	3130.4	72.6
90°-180°	4307.0	99.9
0°-180°	4309.6	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	13	21	27	29	4
95°	69	34	42	47	46	82
105°	323	355	65	76	81	345
115°	611	629	656	164	87	602
125°	864	878	898	906	909	771
135°	1069	1086	1096	1107	1104	826
145°	1241	1240	1258	1265	1260	776
155°	1366	1356	1369	1376	1367	629
165°	1439	1433	1436	1444	1436	407
175°	1472	1465	1467	1474	1464	140
180°	1469	1469	1469	1469	1469	



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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°	1.1	12.8	21.3	26.6	28.7
92.5°	26.6	22.3	25.5	27.6	28.7
95°	69.1	34.0	41.5	46.8	45.7
97.5°	124.4	37.2	54.2	57.4	58.5
100°	188.2	42.5	60.6	69.1	71.2
102.5°	258.3	256.2	62.7	74.4	77.6
105°	323.2	355.1	64.8	76.5	80.8
107.5°	398.6	425.2	67.0	78.7	82.9
110°	470.9	493.3	186.0	79.7	84.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	539.0	558.1	540.0	81.9	85.0
115°	611.3	629.3	655.9	163.7	87.2
117.5°	674.0	695.2	713.3	561.3	282.8
120°	744.1	760.1	779.2	792.0	648.5
122.5°	803.7	820.7	841.9	848.3	849.4
125°	864.3	878.1	898.3	905.7	908.9
127.5°	919.5	934.4	950.4	961.0	962.1
130°	971.6	988.6	1000.3	1012.0	1011.0
132.5°	1024.8	1038.6	1050.3	1059.9	1058.8
135°	1069.4	1086.4	1096.0	1106.6	1104.5
137.5°	1116.2	1129.0	1139.6	1150.2	1147.0
140°	1161.9	1170.4	1182.1	1191.7	1186.4
142.5°	1200.2	1207.6	1221.4	1229.9	1224.6
145°	1240.6	1239.5	1257.6	1265.0	1259.7
147.5°	1275.7	1272.5	1290.5	1295.9	1291.6
150°	1309.7	1302.2	1319.2	1325.6	1320.3
152.5°	1338.4	1329.9	1345.8	1352.2	1344.8
155°	1366.0	1356.4	1369.2	1375.6	1367.1
157.5°	1388.3	1379.8	1389.4	1396.8	1388.3
160°	1407.5	1401.1	1407.5	1413.8	1406.4
162.5°	1424.5	1418.1	1423.4	1430.9	1421.3
165°	1439.4	1433.0	1436.2	1443.6	1436.2
167.5°	1451.1	1444.7	1447.9	1455.3	1445.7
170°	1460.6	1454.2	1456.4	1463.8	1454.2
172.5°	1467.0	1460.6	1462.7	1470.2	1460.6
175°	1472.3	1464.9	1467.0	1474.4	1463.8
177.5°	1474.4	1467.0	1468.1	1475.5	1465.9
180°	1469.1	1469.1	1469.1	1469.1	1469.1

(END OF REPORT)