

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: P334728

Luminaire Tested: **S123IP-S1025U835-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S123IP-S1025U835-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1025 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

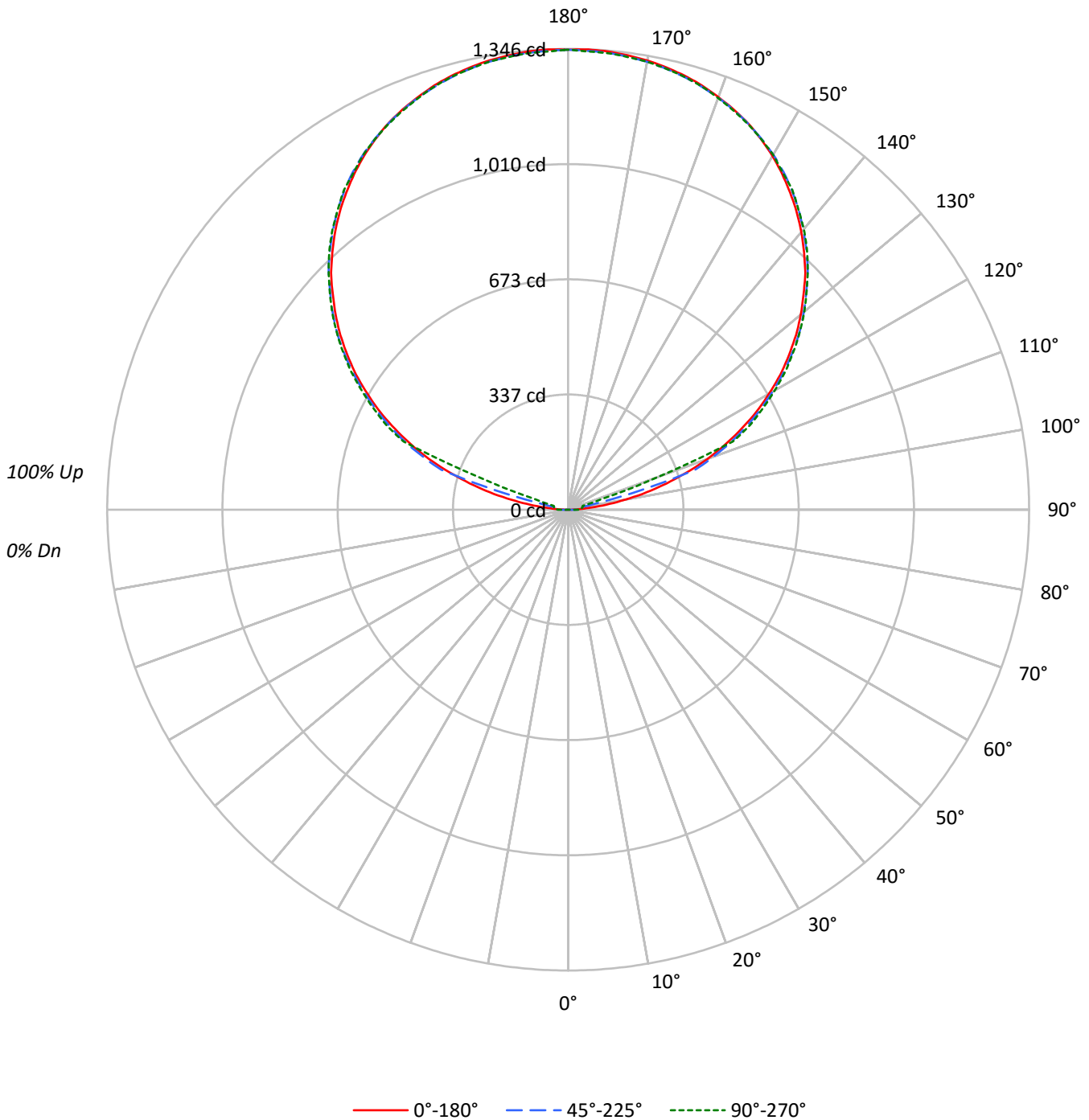
Lumens per Lamp: N/A
Luminaire Lumens: 4098.4 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35.1
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°	2.7	0.1
90°-100°	47.4	1.2
100°-110°	229.1	5.6
110°-120°	561.3	13.7
120°-130°	712.6	17.4
130°-140°	761.2	18.6
140°-150°	711.8	17.4
150°-160°	574.2	14.0
160°-170°	370.5	9.0
170°-180°	127.7	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.7	0.1
90°-120°	837.7	20.4
90°-150°	3023.4	73.8
90°-180°	4096.0	99.9
0°-180°	4098.4	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	24	28	30	3
95°	61	20	31	38	38	73
105°	297	308	219	42	44	315
115°	558	564	573	583	587	551
125°	786	794	798	800	802	703
135°	979	985	989	992	989	754
145°	1130	1137	1139	1141	1141	707
155°	1245	1243	1244	1249	1243	574
165°	1313	1310	1309	1317	1310	371
175°	1344	1338	1340	1346	1338	128
180°	1344	1344	1344	1344	1344	



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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	11.0	24.0	27.9	29.9
92.5°	23.0	17.0	26.0	32.9	33.9
95°	60.9	20.0	30.9	37.9	37.9
97.5°	110.8	82.8	31.9	39.9	40.9
100°	168.7	188.6	32.9	40.9	41.9
102.5°	234.6	247.5	73.9	40.9	42.9
105°	297.4	308.4	218.6	41.9	43.9
107.5°	364.3	373.3	388.3	234.6	103.8
110°	431.2	439.2	450.2	417.2	274.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	495.1	502.1	513.0	522.0	520.0
115°	558.0	564.0	572.9	582.9	586.9
117.5°	619.8	626.8	631.8	639.8	640.8
120°	676.7	685.7	688.7	696.7	696.7
122.5°	734.6	741.6	745.6	750.6	751.6
125°	786.5	794.5	798.5	800.5	802.5
127.5°	838.4	846.4	851.4	854.4	852.4
130°	886.4	894.3	898.3	902.3	900.3
132.5°	932.3	940.3	943.2	947.2	944.2
135°	979.2	985.2	989.2	992.2	989.2
137.5°	1019.1	1027.1	1029.1	1034.1	1032.1
140°	1059.0	1065.0	1068.0	1072.0	1070.0
142.5°	1096.0	1102.0	1104.9	1107.9	1104.9
145°	1129.9	1136.9	1138.9	1140.9	1140.9
147.5°	1162.8	1167.8	1169.8	1171.8	1166.8
150°	1192.8	1195.8	1197.8	1199.8	1196.8
152.5°	1219.7	1220.7	1221.7	1225.7	1220.7
155°	1244.7	1242.7	1243.7	1248.7	1242.7
157.5°	1264.7	1264.7	1263.7	1269.6	1261.7
160°	1282.6	1281.6	1280.6	1286.6	1279.6
162.5°	1299.6	1296.6	1295.6	1302.6	1296.6
165°	1312.6	1309.6	1308.6	1316.6	1309.6
167.5°	1323.5	1319.6	1319.6	1327.5	1319.6
170°	1332.5	1328.5	1328.5	1336.5	1328.5
172.5°	1338.5	1333.5	1334.5	1342.5	1333.5
175°	1343.5	1338.5	1339.5	1346.5	1338.5
177.5°	1345.5	1340.5	1341.5	1349.5	1339.5
180°	1343.5	1343.5	1343.5	1343.5	1343.5

(END OF REPORT)