

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: P334723

Luminaire Tested: **S123IP-S1025U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334723
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-S1025U830-4F0-1E-UDD
Description: DEFINE 3 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1025 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

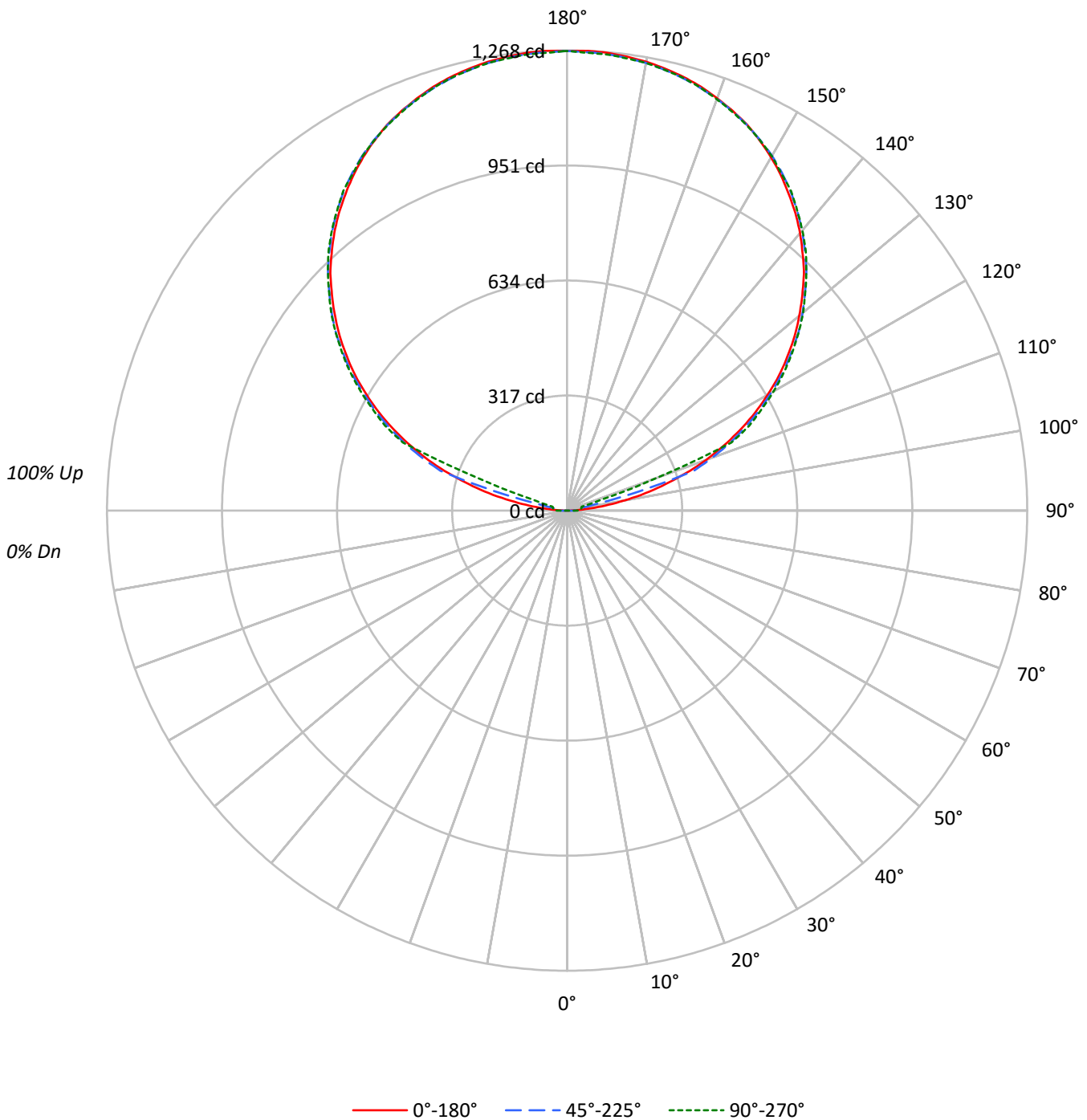
Lumens per Lamp: N/A
Luminaire Lumens: 3863.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (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°	2.5	0.1
90°-100°	44.7	1.2
100°-110°	215.9	5.6
110°-120°	529.1	13.7
120°-130°	671.6	17.4
130°-140°	717.5	18.6
140°-150°	670.9	17.4
150°-160°	541.2	14.0
160°-170°	349.2	9.0
170°-180°	120.4	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.5	0.1
90°-120°	789.6	20.4
90°-150°	2849.7	73.8
90°-180°	3860.0	99.9
0°-180°	3863.0	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	10	23	26	28	3
95°	57	19	29	36	36	69
105°	280	291	206	40	41	297
115°	526	532	540	549	553	519
125°	741	749	753	754	756	662
135°	923	929	932	935	932	711
145°	1065	1072	1073	1075	1075	667
155°	1173	1171	1172	1177	1171	541
165°	1237	1234	1233	1241	1234	350
175°	1266	1262	1262	1269	1262	121
180°	1266	1266	1266	1266	1266	



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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	10.3	22.6	26.3	28.2
92.5°	21.6	16.0	24.5	31.0	32.0
95°	57.4	18.8	29.2	35.8	35.8
97.5°	104.4	78.1	30.1	37.6	38.6
100°	159.0	177.8	31.0	38.6	39.5
102.5°	221.1	233.3	69.6	38.6	40.5
105°	280.4	290.7	206.0	39.5	41.4
107.5°	343.4	351.9	366.0	221.1	97.8
110°	406.4	414.0	424.3	393.3	258.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	466.6	473.2	483.6	492.0	490.2
115°	525.9	531.5	540.0	549.4	553.2
117.5°	584.2	590.8	595.5	603.1	604.0
120°	637.9	646.3	649.1	656.7	656.7
122.5°	692.4	699.0	702.8	707.5	708.4
125°	741.3	748.9	752.6	754.5	756.4
127.5°	790.3	797.8	802.5	805.3	803.4
130°	835.4	843.0	846.7	850.5	848.6
132.5°	878.7	886.2	889.1	892.8	890.0
135°	922.9	928.6	932.3	935.2	932.3
137.5°	960.6	968.1	970.0	974.7	972.8
140°	998.2	1003.8	1006.7	1010.4	1008.5
142.5°	1033.0	1038.6	1041.5	1044.3	1041.5
145°	1065.0	1071.6	1073.4	1075.3	1075.3
147.5°	1096.0	1100.7	1102.6	1104.5	1099.8
150°	1124.3	1127.1	1129.0	1130.8	1128.0
152.5°	1149.7	1150.6	1151.5	1155.3	1150.6
155°	1173.2	1171.3	1172.2	1176.9	1171.3
157.5°	1192.0	1192.0	1191.0	1196.7	1189.2
160°	1208.9	1208.0	1207.0	1212.7	1206.1
162.5°	1224.9	1222.1	1221.2	1227.7	1222.1
165°	1237.1	1234.3	1233.4	1240.9	1234.3
167.5°	1247.5	1243.7	1243.7	1251.3	1243.7
170°	1256.0	1252.2	1252.2	1259.7	1252.2
172.5°	1261.6	1256.9	1257.8	1265.4	1256.9
175°	1266.3	1261.6	1262.5	1269.1	1261.6
177.5°	1268.2	1263.5	1264.4	1272.0	1262.5
180°	1266.3	1266.3	1266.3	1266.3	1266.3

(END OF REPORT)