

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: P334898

Luminaire Tested: **S124IP-S1035U830-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IP-S1035U830-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1035 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

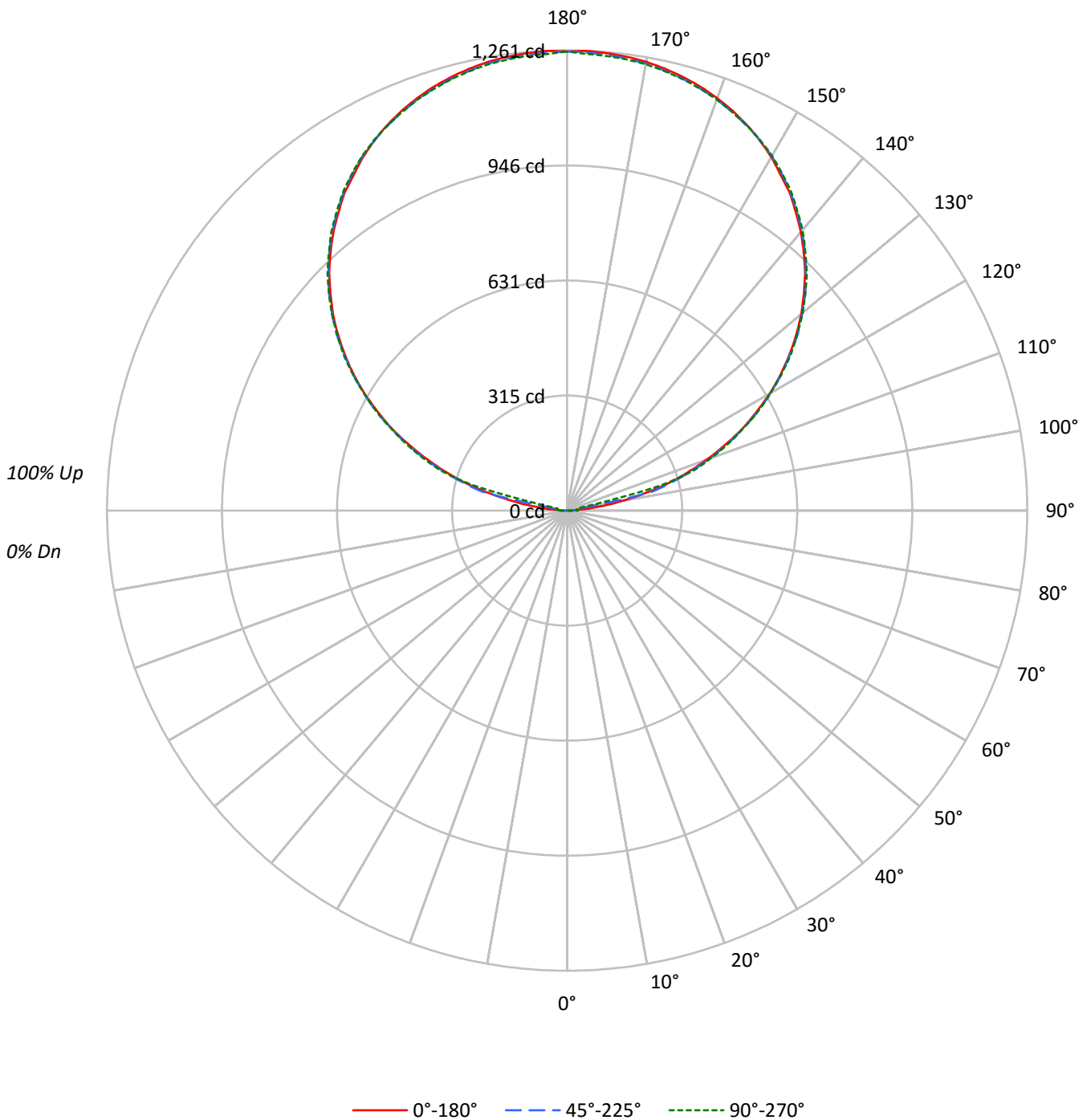
Lumens per Lamp: N/A
Luminaire Lumens: 3895.3 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

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°	2.6	0.1
90°-100°	41.8	1.1
100°-110°	275.0	7.1
110°-120°	525.1	13.5
120°-130°	666.7	17.1
130°-140°	713.2	18.3
140°-150°	666.9	17.1
150°-160°	537.8	13.8
160°-170°	346.8	8.9
170°-180°	119.5	3.1
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°	841.9	21.6
90°-150°	2888.6	74.2
90°-180°	3893.0	99.9
0°-180°	3895.3	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°	3	13	21	26	28	3
95°	52	20	21	26	27	64
105°	283	289	294	302	268	296
115°	529	532	531	533	533	520
125°	743	747	745	748	749	664
135°	922	921	925	927	929	711
145°	1063	1066	1066	1067	1069	664
155°	1166	1167	1164	1168	1165	538
165°	1230	1225	1225	1233	1224	348
175°	1258	1252	1253	1262	1250	120
180°	1258	1258	1258	1258	1258	



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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°	2.8	13.2	20.7	26.3	28.2
92.5°	14.1	12.2	19.8	25.4	25.4
95°	51.8	19.8	20.7	26.3	27.3
97.5°	98.8	119.5	20.7	25.4	26.3
100°	154.3	171.2	41.4	25.4	26.3
102.5°	216.4	227.7	239.0	27.3	27.3
105°	283.2	288.9	293.6	302.0	268.2
107.5°	344.4	347.2	353.8	358.5	362.3
110°	406.5	409.3	414.9	416.8	419.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	466.7	472.3	474.2	473.3	477.0
115°	528.8	531.6	530.7	532.6	532.6
117.5°	584.3	588.1	590.9	590.0	590.0
120°	640.8	644.5	643.6	645.5	643.6
122.5°	693.5	695.3	697.2	698.2	696.3
125°	743.3	747.1	745.2	748.0	749.0
127.5°	791.3	792.2	797.0	796.0	795.1
130°	837.4	838.4	841.2	842.1	842.1
132.5°	879.8	881.6	885.4	886.3	885.4
135°	922.1	921.2	924.9	926.8	928.7
137.5°	959.7	959.7	964.4	966.3	965.4
140°	996.4	998.3	1000.2	1003.0	1004.0
142.5°	1029.4	1033.1	1034.1	1035.9	1035.9
145°	1063.2	1066.1	1066.1	1067.0	1068.9
147.5°	1089.6	1095.2	1094.3	1095.2	1096.2
150°	1118.7	1122.5	1121.6	1121.6	1122.5
152.5°	1143.2	1146.0	1144.1	1146.0	1145.1
155°	1165.8	1166.7	1163.9	1167.7	1164.8
157.5°	1185.5	1185.5	1181.8	1186.5	1181.8
160°	1202.5	1199.7	1198.7	1204.4	1198.7
162.5°	1217.5	1213.8	1212.8	1218.5	1211.9
165°	1229.8	1225.1	1225.1	1232.6	1224.1
167.5°	1240.1	1235.4	1234.5	1242.9	1233.5
170°	1248.6	1242.9	1243.9	1251.4	1242.0
172.5°	1254.2	1248.6	1249.5	1257.1	1246.7
175°	1258.0	1252.4	1253.3	1261.8	1250.5
177.5°	1260.8	1254.2	1256.1	1263.6	1252.4
180°	1258.0	1258.0	1258.0	1258.0	1258.0

(END OF REPORT)