

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: P334924

Luminaire Tested: **S124IP-S1205U935-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334924
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-S1205U935-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

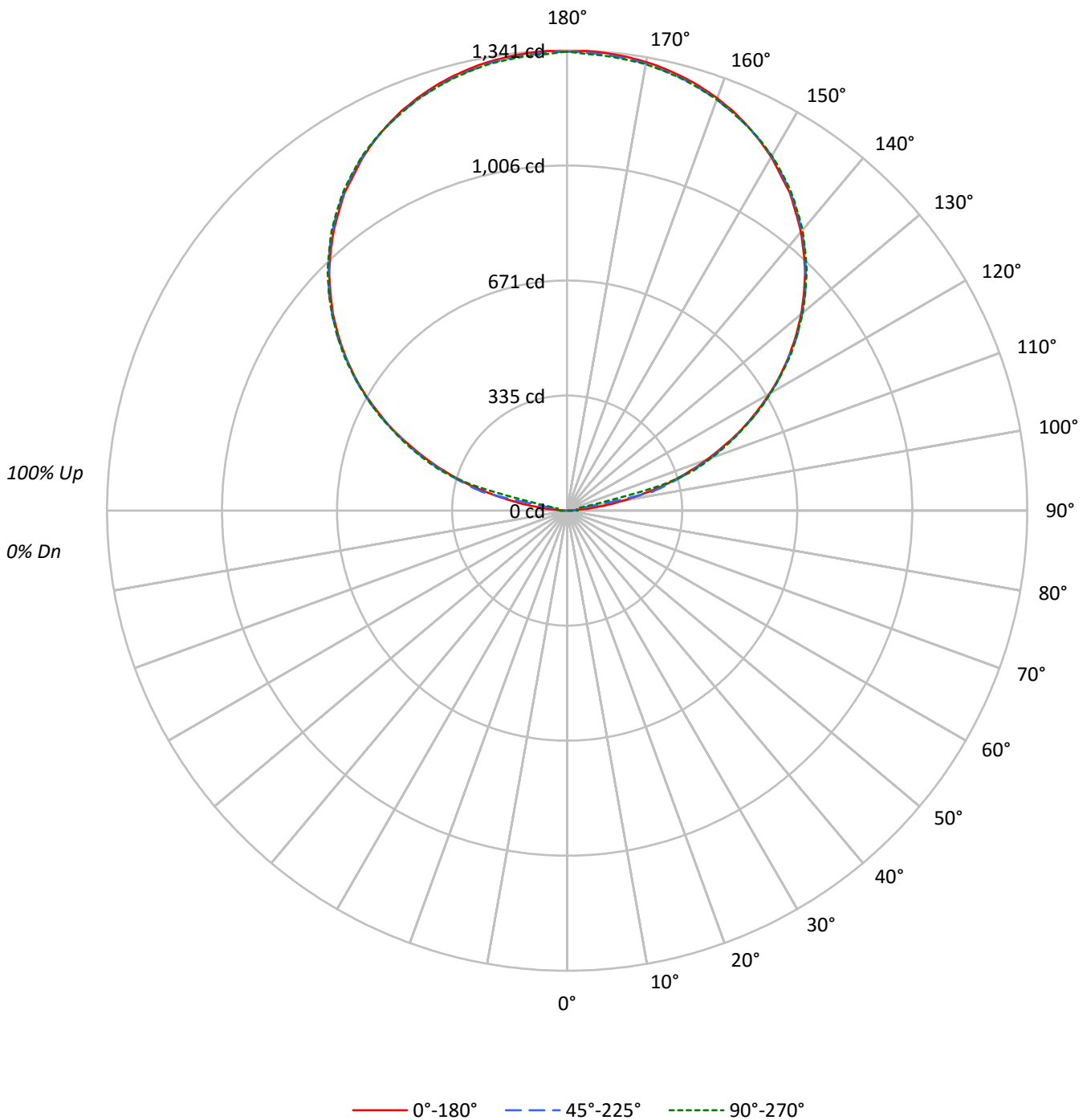
Lumens per Lamp: N/A
Luminaire Lumens: 4141.7 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 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°	2.8	0.1
90°-100°	44.4	1.1
100°-110°	292.4	7.1
110°-120°	558.3	13.5
120°-130°	708.8	17.1
130°-140°	758.3	18.3
140°-150°	709.1	17.1
150°-160°	571.8	13.8
160°-170°	368.8	8.9
170°-180°	127.1	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.8	0.1
90°-120°	895.1	21.6
90°-150°	3071.3	74.2
90°-180°	4139.0	99.9
0°-180°	4141.7	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	14	22	28	30	3
95°	55	21	22	28	29	68
105°	301	307	312	321	285	315
115°	562	565	564	566	566	553
125°	790	794	792	795	796	706
135°	980	979	983	985	987	755
145°	1130	1134	1134	1134	1136	706
155°	1240	1240	1238	1242	1238	572
165°	1308	1303	1303	1311	1302	369
175°	1338	1332	1333	1342	1330	127
180°	1338	1338	1338	1338	1338	



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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°	3.0	14.0	22.0	28.0	30.0
92.5°	15.0	13.0	21.0	27.0	27.0
95°	55.0	21.0	22.0	28.0	29.0
97.5°	105.0	127.1	22.0	27.0	28.0
100°	164.1	182.1	44.0	27.0	28.0
102.5°	230.1	242.1	254.1	29.0	29.0
105°	301.1	307.1	312.1	321.1	285.1
107.5°	366.2	369.2	376.2	381.2	385.2
110°	432.2	435.2	441.2	443.2	446.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	496.2	502.2	504.2	503.2	507.2
115°	562.2	565.2	564.2	566.2	566.2
117.5°	621.3	625.3	628.3	627.3	627.3
120°	681.3	685.3	684.3	686.3	684.3
122.5°	737.3	739.3	741.3	742.3	740.3
125°	790.3	794.4	792.3	795.4	796.4
127.5°	841.4	842.4	847.4	846.4	845.4
130°	890.4	891.4	894.4	895.4	895.4
132.5°	935.4	937.4	941.4	942.4	941.4
135°	980.4	979.4	983.4	985.4	987.4
137.5°	1020.5	1020.5	1025.5	1027.5	1026.5
140°	1059.5	1061.5	1063.5	1066.5	1067.5
142.5°	1094.5	1098.5	1099.5	1101.5	1101.5
145°	1130.5	1133.5	1133.5	1134.5	1136.5
147.5°	1158.5	1164.5	1163.5	1164.5	1165.5
150°	1189.5	1193.5	1192.5	1192.5	1193.5
152.5°	1215.5	1218.5	1216.5	1218.5	1217.5
155°	1239.5	1240.5	1237.5	1241.5	1238.5
157.5°	1260.6	1260.6	1256.6	1261.6	1256.6
160°	1278.6	1275.6	1274.6	1280.6	1274.6
162.5°	1294.6	1290.6	1289.6	1295.6	1288.6
165°	1307.6	1302.6	1302.6	1310.6	1301.6
167.5°	1318.6	1313.6	1312.6	1321.6	1311.6
170°	1327.6	1321.6	1322.6	1330.6	1320.6
172.5°	1333.6	1327.6	1328.6	1336.6	1325.6
175°	1337.6	1331.6	1332.6	1341.6	1329.6
177.5°	1340.6	1333.6	1335.6	1343.6	1331.6
180°	1337.6	1337.6	1337.6	1337.6	1337.6

(END OF REPORT)