

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: P334904

Luminaire Tested: **S124IP-S1205U835-4F0-1E-UDD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334904  
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-S1205U835-4F0-1E-UDD  
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS  
PENDANT MOUNT, 1205 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

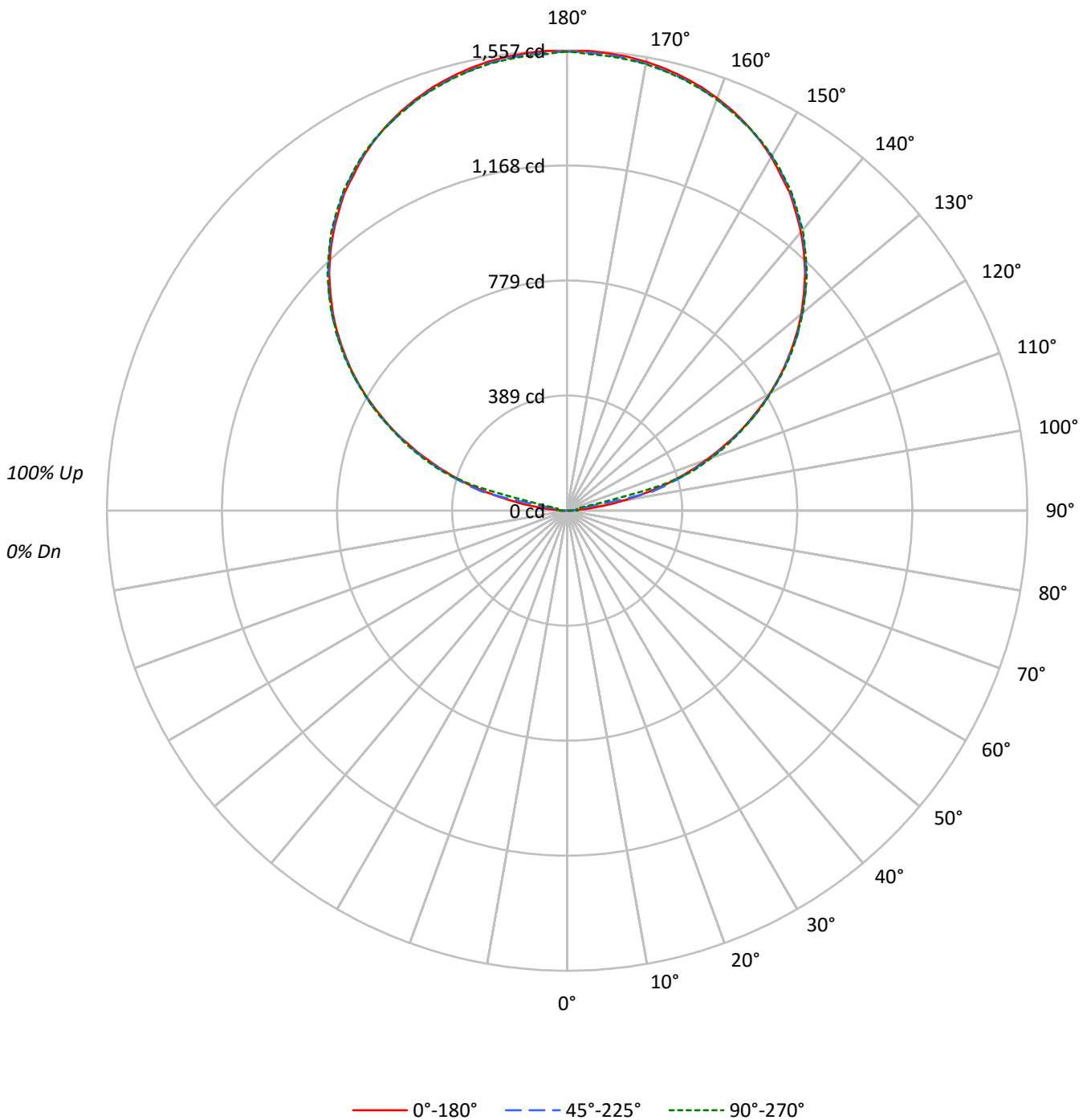
Lumens per Lamp: N/A  
Luminaire Lumens: 4810.4 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Spacing Criteria (0/90/45): - / - / -  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Indirect

Input Watts (W): 41.9  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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°	3.2	0.1
90°-100°	51.6	1.1
100°-110°	339.6	7.1
110°-120°	648.5	13.5
120°-130°	823.3	17.1
130°-140°	880.7	18.3
140°-150°	823.5	17.1
150°-160°	664.1	13.8
160°-170°	428.3	8.9
170°-180°	147.6	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.2	0.1
90°-120°	1039.7	21.6
90°-150°	3567.2	74.2
90°-180°	4807.0	99.9
0°-180°	4810.4	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°	4	16	26	32	35	3
95°	64	24	26	32	34	79
105°	350	357	362	373	331	366
115°	653	656	655	658	658	643
125°	918	923	920	924	925	820
135°	1139	1138	1142	1144	1147	877
145°	1313	1316	1316	1318	1320	820
155°	1440	1441	1437	1442	1438	664
165°	1519	1513	1513	1522	1512	429
175°	1554	1547	1548	1558	1544	148
180°	1554	1554	1554	1554	1554	



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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°	3.5	16.3	25.6	32.5	34.9
92.5°	17.4	15.1	24.4	31.4	31.4
95°	63.9	24.4	25.6	32.5	33.7
97.5°	122.0	147.6	25.6	31.4	32.5
100°	190.6	211.5	51.1	31.4	32.5
102.5°	267.2	281.2	295.1	33.7	33.7
105°	349.7	356.7	362.5	373.0	331.2
107.5°	425.3	428.8	436.9	442.7	447.4
110°	502.0	505.4	512.4	514.7	518.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	576.3	583.3	585.6	584.5	589.1
115°	653.0	656.5	655.3	657.7	657.7
117.5°	721.6	726.2	729.7	728.5	728.5
120°	791.3	795.9	794.8	797.1	794.8
122.5°	856.4	858.7	861.0	862.2	859.8
125°	917.9	922.6	920.3	923.8	924.9
127.5°	977.2	978.4	984.2	983.0	981.9
130°	1034.1	1035.3	1038.8	1039.9	1039.9
132.5°	1086.4	1088.7	1093.4	1094.6	1093.4
135°	1138.7	1137.6	1142.2	1144.5	1146.8
137.5°	1185.2	1185.2	1191.0	1193.3	1192.2
140°	1230.5	1232.8	1235.2	1238.6	1239.8
142.5°	1271.2	1275.8	1277.0	1279.3	1279.3
145°	1313.0	1316.5	1316.5	1317.7	1320.0
147.5°	1345.5	1352.5	1351.4	1352.5	1353.7
150°	1381.6	1386.2	1385.0	1385.0	1386.2
152.5°	1411.8	1415.3	1412.9	1415.3	1414.1
155°	1439.7	1440.8	1437.3	1442.0	1438.5
157.5°	1464.1	1464.1	1459.4	1465.2	1459.4
160°	1485.0	1481.5	1480.3	1487.3	1480.3
162.5°	1503.6	1498.9	1497.8	1504.7	1496.6
165°	1518.7	1512.9	1512.9	1522.2	1511.7
167.5°	1531.5	1525.6	1524.5	1534.9	1523.3
170°	1541.9	1534.9	1536.1	1545.4	1533.8
172.5°	1548.9	1541.9	1543.1	1552.4	1539.6
175°	1553.5	1546.6	1547.7	1558.2	1544.2
177.5°	1557.0	1548.9	1551.2	1560.5	1546.6
180°	1553.5	1553.5	1553.5	1553.5	1553.5

(END OF REPORT)