

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: P334844

Luminaire Tested: **S124IP-S1205U927-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124IP-S1205U927-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3304.4 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

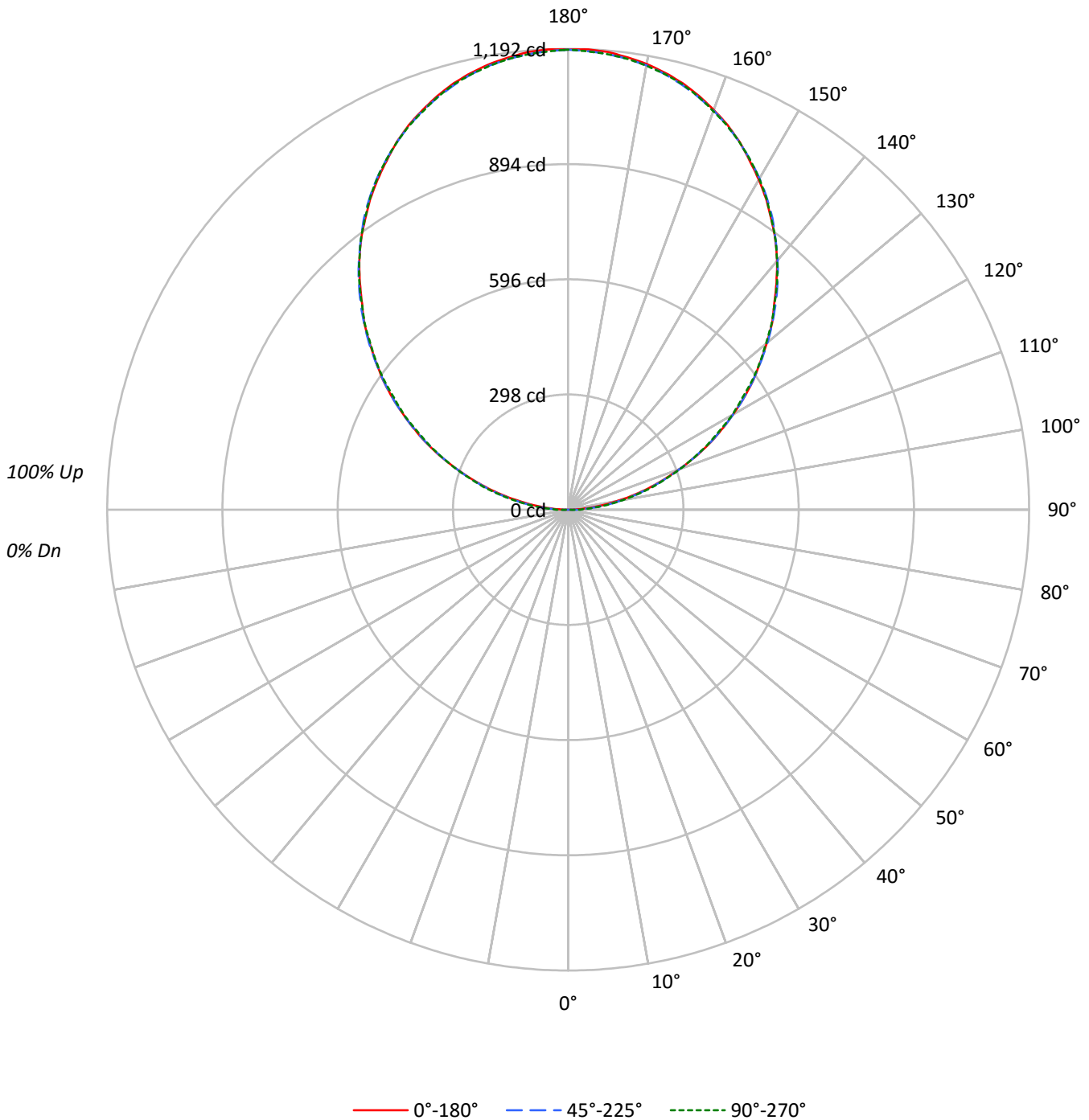
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P334844

CATALOG NUMBER: S124IP-S1205U927-4F0-1E-UDD-1

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°	77.6	2.3
100°-110°	232.3	7.0
110°-120°	394.7	11.9
120°-130°	520.5	15.8
130°-140°	584.7	17.7
140°-150°	574.6	17.4
150°-160°	483.3	14.6
160°-170°	321.6	9.7
170°-180°	112.6	3.4
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°	704.6	21.3
90°-150°	2384.4	72.2
90°-180°	3302.0	99.9
0°-180°	3304.4	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°	3	13	20	26	28	4
95°	55	64	70	73	73	60
105°	214	215	219	222	225	227
115°	401	401	399	398	398	396
125°	584	584	584	582	580	521
135°	754	759	759	758	755	583
145°	916	919	920	919	917	573
155°	1049	1049	1048	1052	1048	483
165°	1142	1139	1138	1143	1139	322
175°	1188	1184	1183	1189	1183	113
180°	1190	1190	1190	1190	1190	



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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	12.9	20.2	25.8	27.6
92.5°	23.9	35.9	40.5	43.3	44.2
95°	55.2	63.5	69.9	72.7	72.7
97.5°	88.4	95.7	103.1	106.8	106.8
100°	128.8	132.5	140.8	142.7	142.7
102.5°	171.2	172.1	179.5	182.2	183.2
105°	214.4	215.4	219.0	221.8	224.6
107.5°	259.5	260.5	261.4	265.1	264.1
110°	305.6	307.4	306.5	304.6	307.4



TEST NUMBER: P334844

CATALOG NUMBER: S124IP-S1205U927-4F0-1E-UDD-1

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	353.4	353.4	351.6	<i>351.6</i>	351.6
115°	401.3	401.3	399.4	<i>398.5</i>	397.6
117.5°	446.4	446.4	445.5	<i>442.7</i>	439.9
120°	491.5	495.2	492.4	<i>487.8</i>	489.6
122.5°	538.4	539.3	538.4	<i>535.6</i>	531.0
125°	584.4	584.4	583.5	<i>581.7</i>	579.8
127.5°	625.8	628.6	626.8	<i>624.9</i>	624.0
130°	670.0	672.8	672.8	<i>670.9</i>	667.3
132.5°	715.1	717.0	716.0	<i>714.2</i>	713.3
135°	753.8	759.3	759.3	<i>757.5</i>	754.7
137.5°	797.0	799.8	801.6	<i>798.9</i>	799.8
140°	840.3	842.1	842.1	<i>841.2</i>	840.3
142.5°	879.9	881.7	880.8	<i>880.8</i>	880.8
145°	915.8	919.4	920.4	<i>919.4</i>	916.7
147.5°	952.6	957.2	956.2	<i>955.3</i>	954.4
150°	985.7	989.4	989.4	<i>989.4</i>	988.5
152.5°	1017.0	1018.8	1019.8	<i>1022.5</i>	1019.8
155°	1049.2	1049.2	1048.3	<i>1052.0</i>	1048.3
157.5°	1076.8	1075.0	1075.0	<i>1077.7</i>	1075.0
160°	1100.7	1099.8	1098.9	<i>1101.7</i>	1097.1
162.5°	1122.8	1120.1	1119.2	<i>1124.7</i>	1120.1
165°	1142.2	1139.4	1137.6	<i>1143.1</i>	1139.4
167.5°	1157.8	1154.1	1154.1	<i>1159.6</i>	1154.1
170°	1170.7	1166.1	1167.0	<i>1172.5</i>	1166.1
172.5°	1179.9	1176.2	1176.2	<i>1182.7</i>	1176.2
175°	1188.2	1183.6	1182.7	<i>1189.1</i>	1182.7
177.5°	<i>1191.9</i>	<i>1187.3</i>	<i>1187.3</i>	<i>1193.7</i>	<i>1186.3</i>
180°	1190.0	1190.0	1190.0	<i>1190.0</i>	1190.0

(END OF REPORT)