

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: P334849

Luminaire Tested: **S124IP-S1205U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334849
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-S1205U930-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1205 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3400.8 lumens
Efficiency: N/A
Efficacy: 81.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

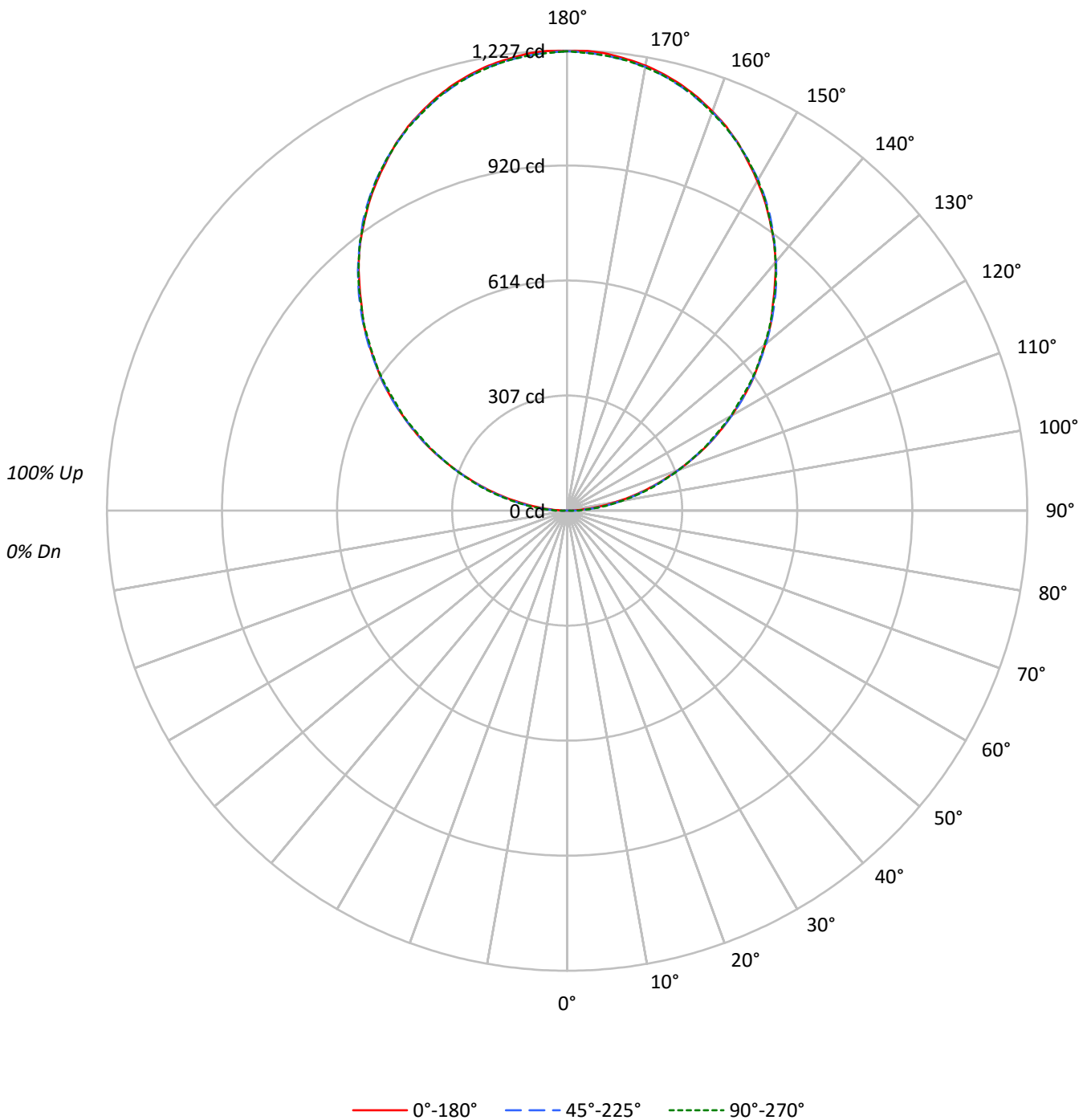
Input Watts (W): 41.9
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	79.8	2.3
100°-110°	239.1	7.0
110°-120°	406.2	11.9
120°-130°	535.7	15.8
130°-140°	601.7	17.7
140°-150°	591.4	17.4
150°-160°	497.4	14.6
160°-170°	331.0	9.7
170°-180°	115.9	3.4
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°	725.1	21.3
90°-150°	2454.0	72.2
90°-180°	3398.0	99.9
0°-180°	3400.8	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	4
95°	57	65	72	75	75	62
105°	221	222	225	228	231	234
115°	413	413	411	410	409	407
125°	602	602	600	599	597	536
135°	776	782	782	780	777	600
145°	942	946	947	946	943	590
155°	1080	1080	1079	1083	1079	497
165°	1176	1173	1171	1176	1173	331
175°	1223	1218	1217	1224	1217	116
180°	1225	1225	1225	1225	1225	



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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	13.3	20.8	26.5	28.4
92.5°	24.6	36.9	41.7	44.5	45.5
95°	56.8	65.4	72.0	74.8	74.8
97.5°	90.9	98.5	106.1	109.9	109.9
100°	132.6	136.4	144.9	146.8	146.8
102.5°	176.2	177.1	184.7	187.5	188.5
105°	220.7	221.6	225.4	228.3	231.1
107.5°	267.1	268.1	269.0	272.8	271.9
110°	314.5	316.4	315.4	313.5	316.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	363.7	363.7	361.8	<i>361.8</i>	361.8
115°	413.0	413.0	411.1	<i>410.1</i>	409.2
117.5°	459.4	459.4	458.5	<i>455.6</i>	452.8
120°	505.8	509.6	506.8	<i>502.0</i>	503.9
122.5°	554.1	555.1	554.1	<i>551.3</i>	546.5
125°	601.5	601.5	600.5	<i>598.6</i>	596.7
127.5°	644.1	646.9	645.1	<i>643.2</i>	642.2
130°	689.6	692.4	692.4	<i>690.5</i>	686.7
132.5°	736.0	737.9	736.9	<i>735.0</i>	734.1
135°	775.8	781.5	781.5	<i>779.6</i>	776.7
137.5°	820.3	823.1	825.0	<i>822.2</i>	823.1
140°	864.8	866.7	866.7	<i>865.8</i>	864.8
142.5°	905.5	907.4	906.5	<i>906.5</i>	906.5
145°	942.5	946.3	947.2	<i>946.3</i>	943.4
147.5°	980.4	985.1	984.2	<i>983.2</i>	982.3
150°	1014.5	1018.3	1018.3	<i>1018.3</i>	1017.3
152.5°	1046.7	1048.6	1049.5	<i>1052.4</i>	1049.5
155°	1079.8	1079.8	1078.9	<i>1082.7</i>	1078.9
157.5°	1108.2	1106.3	1106.3	<i>1109.2</i>	1106.3
160°	1132.9	1131.9	1131.0	<i>1133.8</i>	1129.1
162.5°	1155.6	1152.8	1151.8	<i>1157.5</i>	1152.8
165°	1175.5	1172.6	1170.8	<i>1176.4</i>	1172.6
167.5°	1191.6	1187.8	1187.8	<i>1193.5</i>	1187.8
170°	1204.9	1200.1	1201.1	<i>1206.7</i>	1200.1
172.5°	1214.3	1210.5	1210.5	<i>1217.2</i>	1210.5
175°	1222.9	1218.1	1217.2	<i>1223.8</i>	1217.2
177.5°	<i>1226.6</i>	<i>1221.9</i>	<i>1221.9</i>	<i>1228.5</i>	<i>1221.0</i>
180°	1224.7	1224.7	1224.7	<i>1224.7</i>	1224.7

(END OF REPORT)