

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: P334848

Luminaire Tested: **S124IP-S1035U930-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334848
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-S1035U930-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 1035 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2921.8 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

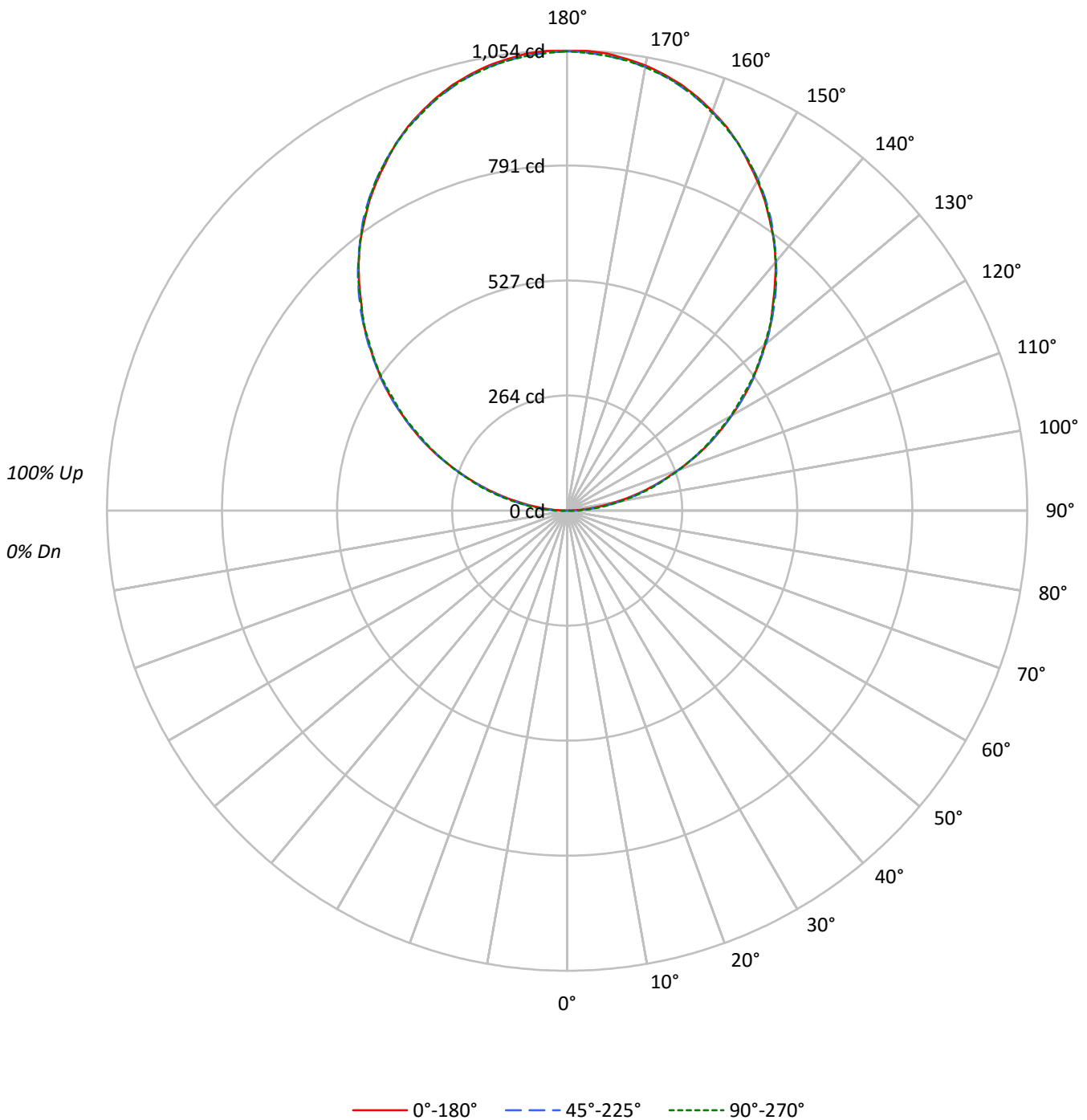
Input Watts (W): 35.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2.2	0.1
90°-100°	68.6	2.3
100°-110°	205.4	7.0
110°-120°	349.0	11.9
120°-130°	460.3	15.8
130°-140°	516.9	17.7
140°-150°	508.1	17.4
150°-160°	427.3	14.6
160°-170°	284.3	9.7
170°-180°	99.6	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.2	0.1
90°-120°	623.0	21.3
90°-150°	2108.3	72.2
90°-180°	2920.0	99.9
0°-180°	2921.8	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°	2	11	18	23	24	4
95°	49	56	62	64	64	53
105°	190	190	194	196	199	201
115°	355	355	353	352	352	350
125°	517	517	516	514	513	461
135°	666	671	671	670	667	516
145°	810	813	814	813	810	507
155°	928	928	927	930	927	427
165°	1010	1008	1006	1011	1008	285
175°	1051	1046	1046	1051	1046	100
180°	1052	1052	1052	1052	1052	



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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°	2.4	11.4	17.9	22.8	24.4
92.5°	21.2	31.7	35.8	38.2	39.1
95°	48.8	56.2	61.8	64.3	64.3
97.5°	78.1	84.6	91.1	94.4	94.4
100°	113.9	117.2	124.5	126.1	126.1
102.5°	151.4	152.2	158.7	161.1	161.9
105°	189.6	190.4	193.7	196.1	198.6
107.5°	229.5	230.3	231.1	234.4	233.6
110°	270.2	271.8	271.0	269.4	271.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	312.5	312.5	310.9	310.9	310.9
115°	354.8	354.8	353.2	352.4	351.6
117.5°	394.7	394.7	393.9	391.4	389.0
120°	434.6	437.8	435.4	431.3	432.9
122.5°	476.1	476.9	476.1	473.6	469.6
125°	516.8	516.8	515.9	514.3	512.7
127.5°	553.4	555.8	554.2	552.6	551.7
130°	592.4	594.9	594.9	593.2	590.0
132.5°	632.3	633.9	633.1	631.5	630.7
135°	666.5	671.4	671.4	669.7	667.3
137.5°	704.7	707.2	708.8	706.4	707.2
140°	743.0	744.6	744.6	743.8	743.0
142.5°	778.0	779.6	778.8	778.8	778.8
145°	809.7	813.0	813.8	813.0	810.5
147.5°	842.3	846.3	845.5	844.7	843.9
150°	871.6	874.8	874.8	874.8	874.0
152.5°	899.2	900.9	901.7	904.1	901.7
155°	927.7	927.7	926.9	930.2	926.9
157.5°	952.1	950.5	950.5	952.9	950.5
160°	973.3	972.5	971.7	974.1	970.0
162.5°	992.8	990.4	989.6	994.4	990.4
165°	1009.9	1007.5	1005.8	1010.7	1007.5
167.5°	1023.7	1020.5	1020.5	1025.4	1020.5
170°	1035.1	1031.1	1031.9	1036.8	1031.1
172.5°	1043.3	1040.0	1040.0	1045.7	1040.0
175°	1050.6	1046.5	1045.7	1051.4	1045.7
177.5°	1053.8	1049.8	1049.8	1055.5	1049.0
180°	1052.2	1052.2	1052.2	1052.2	1052.2

(END OF REPORT)