

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: P334910

Luminaire Tested: **S124IP-S365U927-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334910
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-S365U927-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 365 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1159.1 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

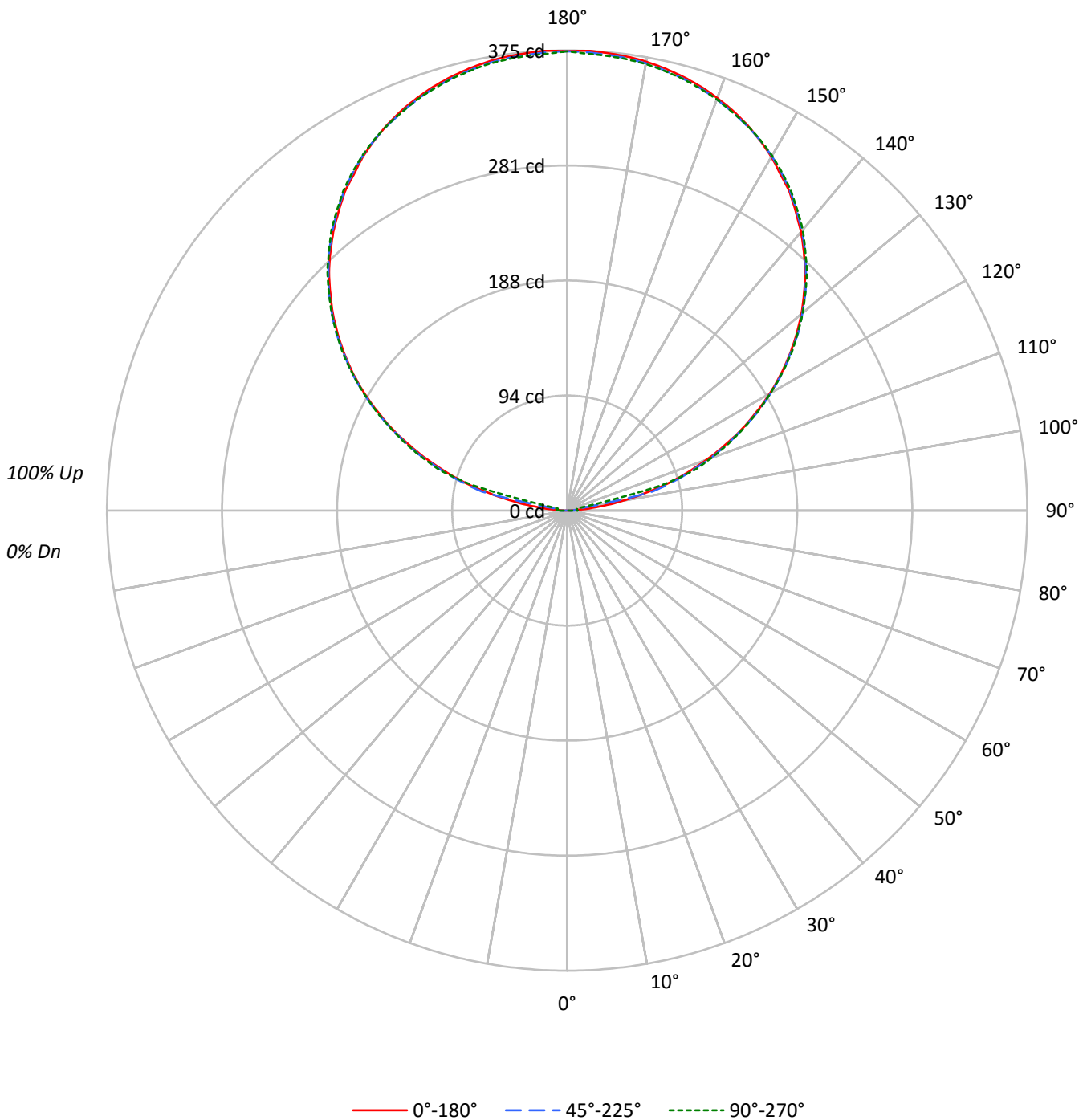
Input Watts (W): 11.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	0.8	0.1
90°-100°	12.4	1.1
100°-110°	81.8	7.1
110°-120°	156.3	13.5
120°-130°	198.4	17.1
130°-140°	212.2	18.3
140°-150°	198.4	17.1
150°-160°	160.0	13.8
160°-170°	103.2	8.9
170°-180°	35.6	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.8	0.1
90°-120°	250.5	21.6
90°-150°	859.5	74.2
90°-180°	1158.0	99.9
0°-180°	1159.1	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°	1	4	6	8	8	1
95°	15	6	6	8	8	19
105°	84	86	87	90	80	88
115°	157	158	158	158	158	155
125°	221	222	222	223	223	198
135°	274	274	275	276	276	211
145°	316	317	317	318	318	198
155°	347	347	346	347	347	160
165°	366	364	364	367	364	103
175°	374	373	373	375	372	36
180°	374	374	374	374	374	



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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°	0.8	3.9	6.2	7.8	8.4
92.5°	4.2	3.6	5.9	7.6	7.6
95°	15.4	5.9	6.2	7.8	8.1
97.5°	29.4	35.6	6.2	7.6	7.8
100°	45.9	51.0	12.3	7.6	7.8
102.5°	64.4	67.8	71.1	8.1	8.1
105°	84.3	86.0	87.3	89.9	79.8
107.5°	102.5	103.3	105.3	106.7	107.8
110°	120.9	121.8	123.5	124.0	124.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	138.9	140.5	141.1	140.8	141.9
115°	157.3	158.2	157.9	158.5	158.5
117.5°	173.9	175.0	175.8	175.5	175.5
120°	190.7	191.8	191.5	192.1	191.5
122.5°	206.3	206.9	207.5	207.7	207.2
125°	221.2	222.3	221.7	222.6	222.9
127.5°	235.5	235.7	237.1	236.9	236.6
130°	249.2	249.5	250.3	250.6	250.6
132.5°	261.8	262.3	263.4	263.7	263.4
135°	274.4	274.1	275.2	275.8	276.3
137.5°	285.6	285.6	287.0	287.5	287.2
140°	296.5	297.0	297.6	298.4	298.7
142.5°	306.3	307.4	307.7	308.2	308.2
145°	316.4	317.2	317.2	317.5	318.0
147.5°	324.2	325.9	325.6	325.9	326.2
150°	332.9	334.0	333.7	333.7	334.0
152.5°	340.2	341.0	340.4	341.0	340.7
155°	346.9	347.2	346.3	347.4	346.6
157.5°	352.8	352.8	351.6	353.0	351.6
160°	357.8	357.0	356.7	358.4	356.7
162.5°	362.3	361.2	360.9	362.6	360.6
165°	365.9	364.5	364.5	366.8	364.2
167.5°	369.0	367.6	367.3	369.8	367.0
170°	371.5	369.8	370.1	372.4	369.6
172.5°	373.2	371.5	371.8	374.0	371.0
175°	374.3	372.6	372.9	375.4	372.1
177.5°	375.2	373.2	373.8	376.0	372.6
180°	374.3	374.3	374.3	374.3	374.3

(END OF REPORT)