

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: P334925

Luminaire Tested: **S124IP-S365U940-4F0-1E-UDD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334925
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-S365U940-4F0-1E-UDD
Description: DEFINE 4 INDIRECT LED LUMINAIRE, NO LENS
PENDANT MOUNT, 365 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

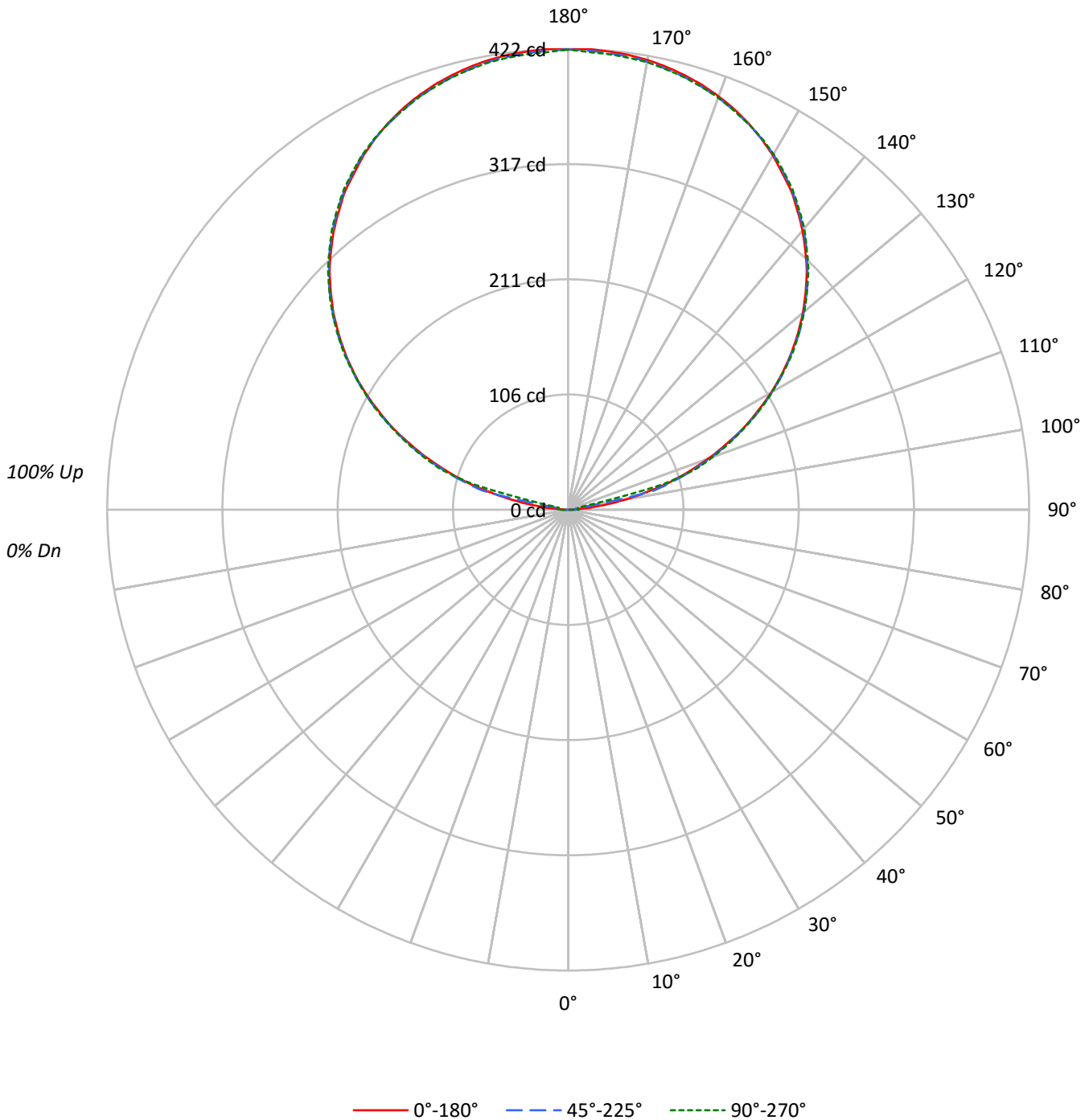
Lumens per Lamp: N/A
Luminaire Lumens: 1304.6 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

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°	0.9	0.1
90°-100°	14.0	1.1
100°-110°	92.1	7.1
110°-120°	175.9	13.5
120°-130°	223.3	17.1
130°-140°	238.9	18.3
140°-150°	223.4	17.1
150°-160°	180.1	13.8
160°-170°	116.2	8.9
170°-180°	40.0	3.1
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	0.9	0.1
90°-120°	282.0	21.6
90°-150°	967.5	74.2
90°-180°	1304.0	100.0
0°-180°	1304.6	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	7	9	10	1
95°	17	7	7	9	9	21
105°	95	97	98	101	90	99
115°	177	178	178	178	178	174
125°	249	250	250	250	251	222
135°	309	308	310	310	311	238
145°	356	357	357	357	358	223
155°	390	391	390	391	390	180
165°	412	410	410	413	410	116
175°	421	420	420	423	419	40
180°	421	421	421	421	421	



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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°	0.9	4.4	6.9	8.8	9.5
92.5°	4.7	4.1	6.6	8.5	8.5
95°	17.3	6.6	6.9	8.8	9.1
97.5°	33.1	40.0	6.9	8.5	8.8
100°	51.7	57.4	13.9	8.5	8.8
102.5°	72.5	76.3	80.0	9.1	9.1
105°	94.9	96.7	98.3	101.2	89.8
107.5°	115.3	116.3	118.5	120.1	121.3
110°	136.1	137.1	139.0	139.6	140.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	156.3	158.2	158.8	158.5	159.8
115°	177.1	178.1	177.7	178.4	178.4
117.5°	195.7	197.0	197.9	197.6	197.6
120°	214.6	215.9	215.6	216.2	215.6
122.5°	232.3	232.9	233.5	233.8	233.2
125°	249.0	250.2	249.6	250.5	250.9
127.5°	265.0	265.3	266.9	266.6	266.3
130°	280.5	280.8	281.7	282.1	282.1
132.5°	294.7	295.3	296.5	296.9	296.5
135°	308.8	308.5	309.8	310.4	311.0
137.5°	321.4	321.4	323.0	323.7	323.3
140°	333.7	334.4	335.0	335.9	336.3
142.5°	344.8	346.0	346.3	347.0	347.0
145°	356.1	357.1	357.1	357.4	358.0
147.5°	364.9	366.8	366.5	366.8	367.1
150°	374.7	376.0	375.6	375.6	376.0
152.5°	382.9	383.8	383.2	383.8	383.5
155°	390.5	390.8	389.8	391.1	390.1
157.5°	397.1	397.1	395.8	397.4	395.8
160°	402.8	401.8	401.5	403.4	401.5
162.5°	407.8	406.5	406.2	408.1	405.9
165°	411.9	410.3	410.3	412.8	410.0
167.5°	415.4	413.8	413.5	416.3	413.2
170°	418.2	416.3	416.6	419.1	416.0
172.5°	420.1	418.2	418.5	421.0	417.6
175°	421.3	419.5	419.8	422.6	418.8
177.5°	422.3	420.1	420.7	423.2	419.5
180°	421.3	421.3	421.3	421.3	421.3

(END OF REPORT)