

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: P334857

Luminaire Tested: **S124IP-S810U940-4F0-1E-UDD-1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334857
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-S810U940-4F0-1E-UDD-1
Description: DEFINE 4 INDIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT MOUNT, 810 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

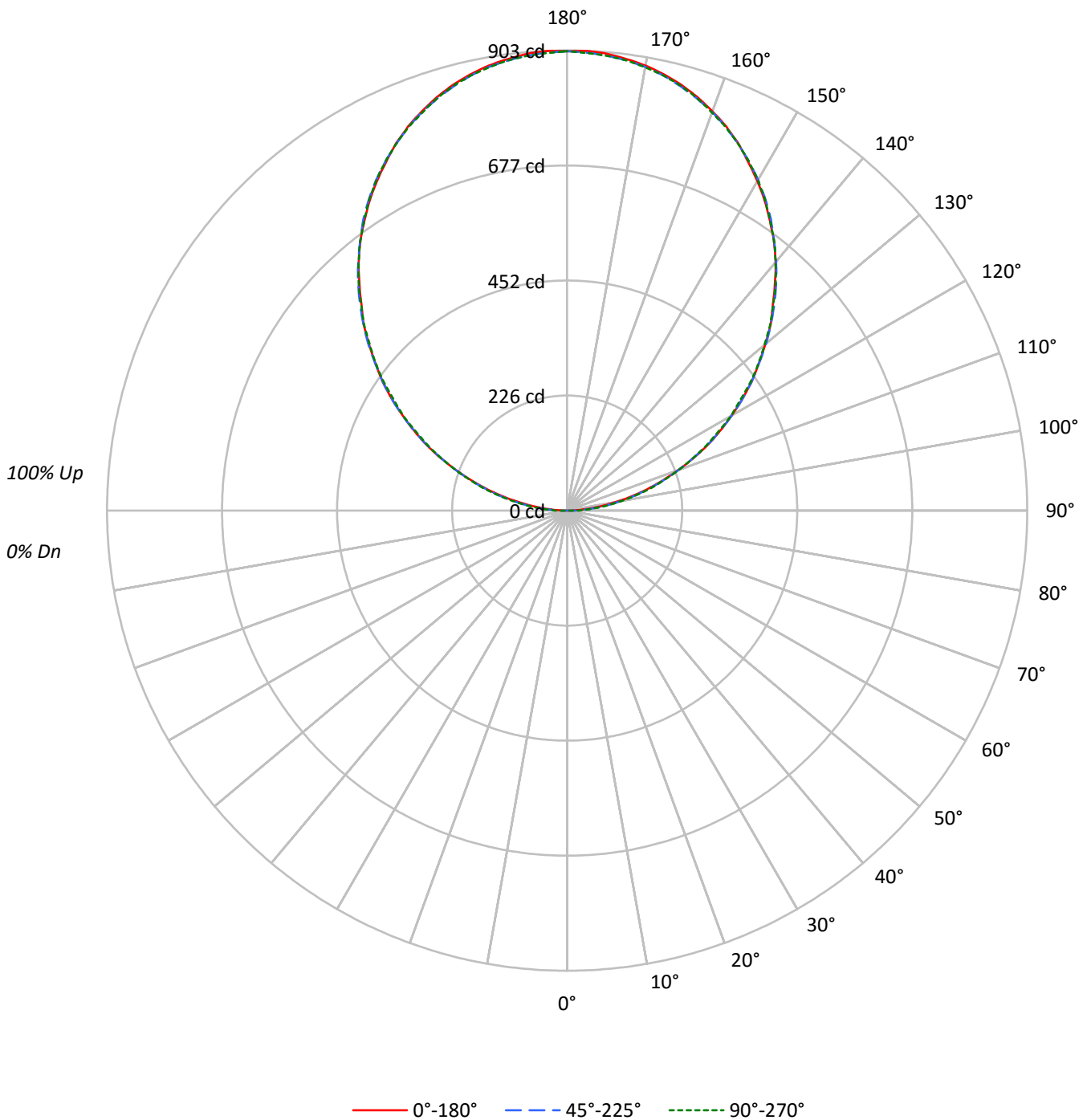
Lumens per Lamp: N/A
Luminaire Lumens: 2502.9 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 26.4
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°	1.9	0.1
90°-100°	58.8	2.3
100°-110°	176.0	7.0
110°-120°	299.0	11.9
120°-130°	394.3	15.8
130°-140°	442.8	17.7
140°-150°	435.3	17.4
150°-160°	366.1	14.6
160°-170°	243.6	9.7
170°-180°	85.3	3.4
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	1.9	0.1
90°-120°	533.7	21.3
90°-150°	1806.1	72.2
90°-180°	2501.0	99.9
0°-180°	2502.9	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	10	15	20	21	3
95°	42	48	53	55	55	45
105°	162	163	166	168	170	172
115°	304	304	303	302	301	300
125°	443	443	442	441	439	395
135°	571	575	575	574	572	442
145°	694	696	697	696	694	434
155°	795	795	794	797	794	366
165°	865	863	862	866	863	244
175°	900	896	896	901	896	85
180°	901	901	901	901	901	



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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°	2.1	9.8	15.3	19.5	20.9
92.5°	18.1	27.2	30.7	32.8	33.5
95°	41.8	48.1	53.0	55.1	55.1
97.5°	66.9	72.5	78.1	80.9	80.9
100°	97.6	100.4	106.7	108.1	108.1
102.5°	129.7	130.4	135.9	138.0	138.7
105°	162.4	163.1	165.9	168.0	170.1
107.5°	196.6	197.3	198.0	200.8	200.1
110°	231.4	232.8	232.1	230.7	232.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.7	267.7	266.3	266.3	266.3
115°	303.9	303.9	302.6	301.9	301.2
117.5°	338.1	338.1	337.4	335.3	333.2
120°	372.3	375.1	373.0	369.5	370.9
122.5°	407.8	408.5	407.8	405.7	402.2
125°	442.7	442.7	442.0	440.6	439.2
127.5°	474.0	476.1	474.7	473.3	472.7
130°	507.5	509.6	509.6	508.2	505.4
132.5°	541.7	543.1	542.4	541.0	540.3
135°	570.9	575.1	575.1	573.7	571.6
137.5°	603.7	605.8	607.2	605.1	605.8
140°	636.5	637.9	637.9	637.2	636.5
142.5°	666.5	667.8	667.2	667.2	667.2
145°	693.6	696.4	697.1	696.4	694.3
147.5°	721.5	725.0	724.3	723.6	722.9
150°	746.6	749.4	749.4	749.4	748.7
152.5°	770.3	771.7	772.4	774.5	772.4
155°	794.7	794.7	794.0	796.8	794.0
157.5°	815.6	814.2	814.2	816.3	814.2
160°	833.8	833.1	832.4	834.5	831.0
162.5°	850.5	848.4	847.7	851.9	848.4
165°	865.1	863.0	861.6	865.8	863.0
167.5°	877.0	874.2	874.2	878.4	874.2
170°	886.7	883.3	884.0	888.1	883.3
172.5°	893.7	890.9	890.9	895.8	890.9
175°	900.0	896.5	895.8	900.7	895.8
177.5°	902.8	899.3	899.3	904.2	898.6
180°	901.4	901.4	901.4	901.4	901.4

(END OF REPORT)