

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: P334240

Luminaire Tested: **S124RDP-S350D840-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334240  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-26)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124RDP-S350D840-4F0-1E-UDD-F  
Description: DEFINE 4 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 350 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

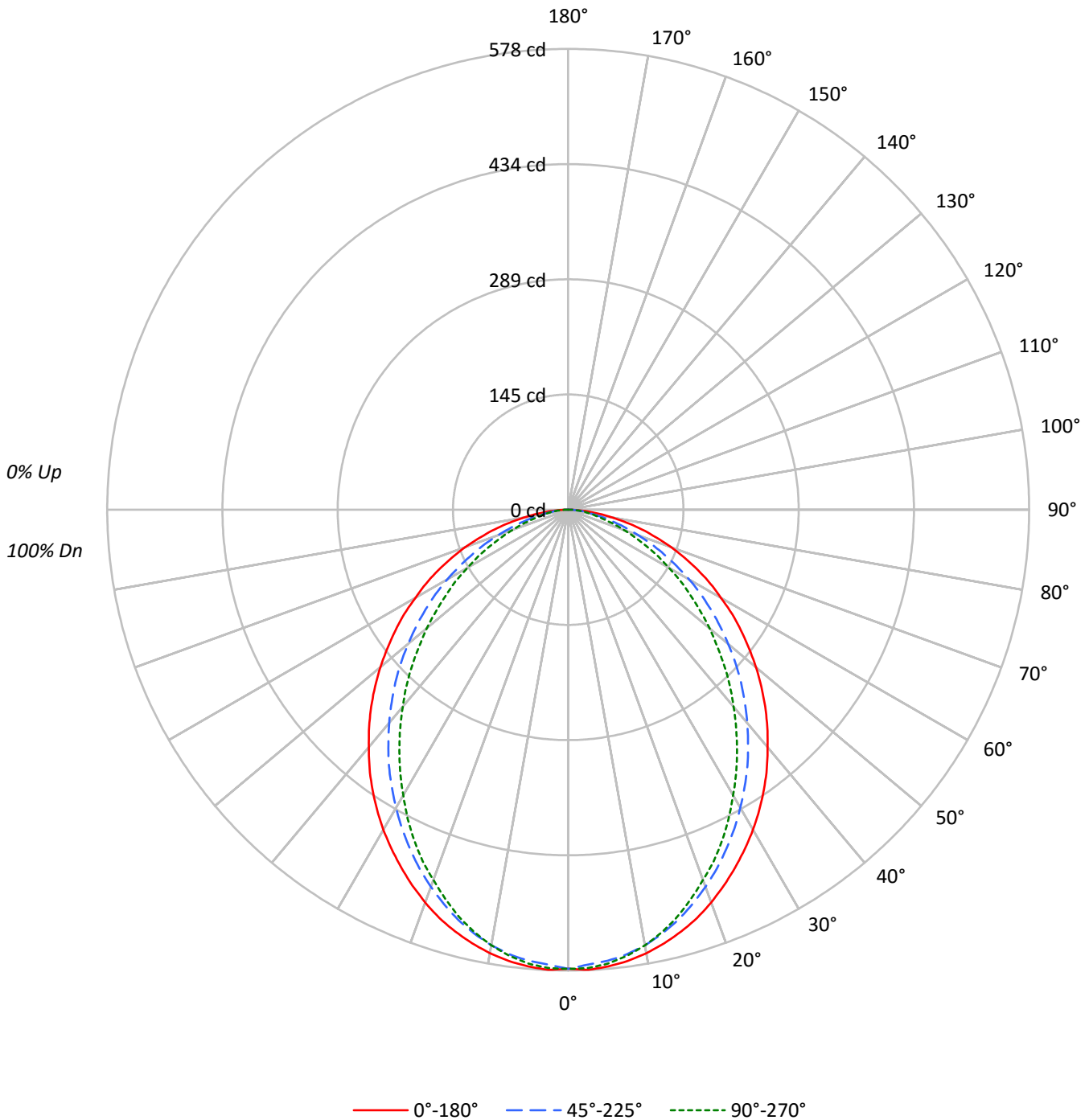
Lumens per Lamp: N/A  
Luminaire Lumens: 1330.6 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.6  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	110	105	101	98	107	103	99	96	99	96	93		95	92	90		91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78		84	80	76		81	78	74	72
3	92	82	74	68	89	80	73	67	77	71	66		75	69	65		72	68	64	62
4	84	73	65	58	82	72	64	58	69	62	57		67	61	56		65	60	56	54
5	78	66	57	51	76	65	56	50	62	55	50		61	54	49		59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44		55	49	44		53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39		50	44	39		49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35		46	40	35		45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32		43	36	32		42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29		40	33	29		39	33	29	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4649	4649	4649
5°	4660	4602	4631
10°	4630	4547	4547
15°	4577	4451	4419
20°	4504	4326	4247
25°	4411	4179	4073
30°	4320	4024	3856
35°	4219	3863	3638
40°	4098	3680	3402
45°	3987	3498	3161
50°	3859	3289	2907
55°	3724	3073	2632
60°	3573	2834	2349
65°	3436	2535	2073
70°	3236	2207	1758
75°	2985	1828	1432
80°	2603	1395	1311
85°	2205	1269	1186



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.1	4.1
10°-20°	151.0	11.3
20°-30°	218.0	16.4
30°-40°	247.0	18.6
40°-50°	238.5	17.9
50°-60°	198.3	14.9
60°-70°	136.9	10.3
70°-80°	69.2	5.2
80°-90°	17.6	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	423.1	31.8
0°-40°	670.1	50.4
0°-60°	1107.0	83.2
0°-90°	1330.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1330.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	576	576	576	576	576	
5°	575	573	568	572	571	55
15°	548	544	533	532	529	154
25°	495	487	469	462	457	228
35°	428	414	392	377	369	268
45°	349	333	306	285	277	269
55°	265	247	218	195	187	237
65°	180	161	133	114	108	178
75°	96	79	59	48	46	101
85°	24	15	14	13	13	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	575.9	575.9	575.9	575.9	575.9
2.5°	577.6	575.9	571.0	575.9	575.4
5°	575.0	573.2	567.9	572.3	571.4
7.5°	571.0	569.2	562.6	565.7	564.4
10°	564.8	562.6	554.7	556.5	554.7
12.5°	556.9	554.2	544.5	545.4	542.8
15°	547.6	543.7	532.6	531.8	528.7
17.5°	537.1	531.3	518.5	516.3	511.9
20°	524.3	518.5	503.5	500.0	494.3
22.5°	510.2	503.5	487.2	481.5	477.1
25°	495.2	487.2	469.2	461.7	457.2
27.5°	479.7	470.0	451.1	442.3	436.1
30°	463.4	452.4	431.7	420.6	413.6
32.5°	446.2	433.4	411.8	398.6	392.0
35°	428.1	414.0	392.0	377.0	369.1
37.5°	409.2	394.6	370.4	354.1	346.1
40°	388.9	374.4	349.2	330.7	322.8
42.5°	369.5	354.1	327.6	308.7	300.3
45°	349.2	332.9	306.4	284.8	276.9
47.5°	328.5	311.7	284.4	261.9	253.1
50°	307.3	290.1	261.9	239.9	231.5
52.5°	285.7	269.0	239.9	217.4	208.6
55°	264.6	246.9	218.3	195.3	187.0
57.5°	243.8	225.3	197.1	173.7	167.6
60°	221.3	203.7	175.5	152.6	145.5
62.5°	201.1	182.5	153.4	132.7	127.4
65°	179.9	160.9	132.7	113.8	108.5
67.5°	157.9	139.8	113.3	96.6	90.4
70°	137.1	118.6	93.5	78.9	74.5
72.5°	115.1	98.8	75.4	63.5	59.5
75°	95.7	79.4	58.6	48.5	45.9
77.5°	75.4	61.3	43.7	36.6	35.7
80°	56.0	43.2	30.0	28.7	28.2
82.5°	39.2	27.8	21.6	20.7	20.3
85°	23.8	15.0	13.7	12.8	12.8
87.5°	10.1	6.6	6.2	5.7	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)