

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: P334256

Luminaire Tested: **S124RDS-S575D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334256  
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: S124RDS-S575D935-4F0-1E-UDD-F  
Description: DEFINE 4 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 575 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1865.6 lumens  
Efficiency: N/A  
Efficacy: 99.2 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

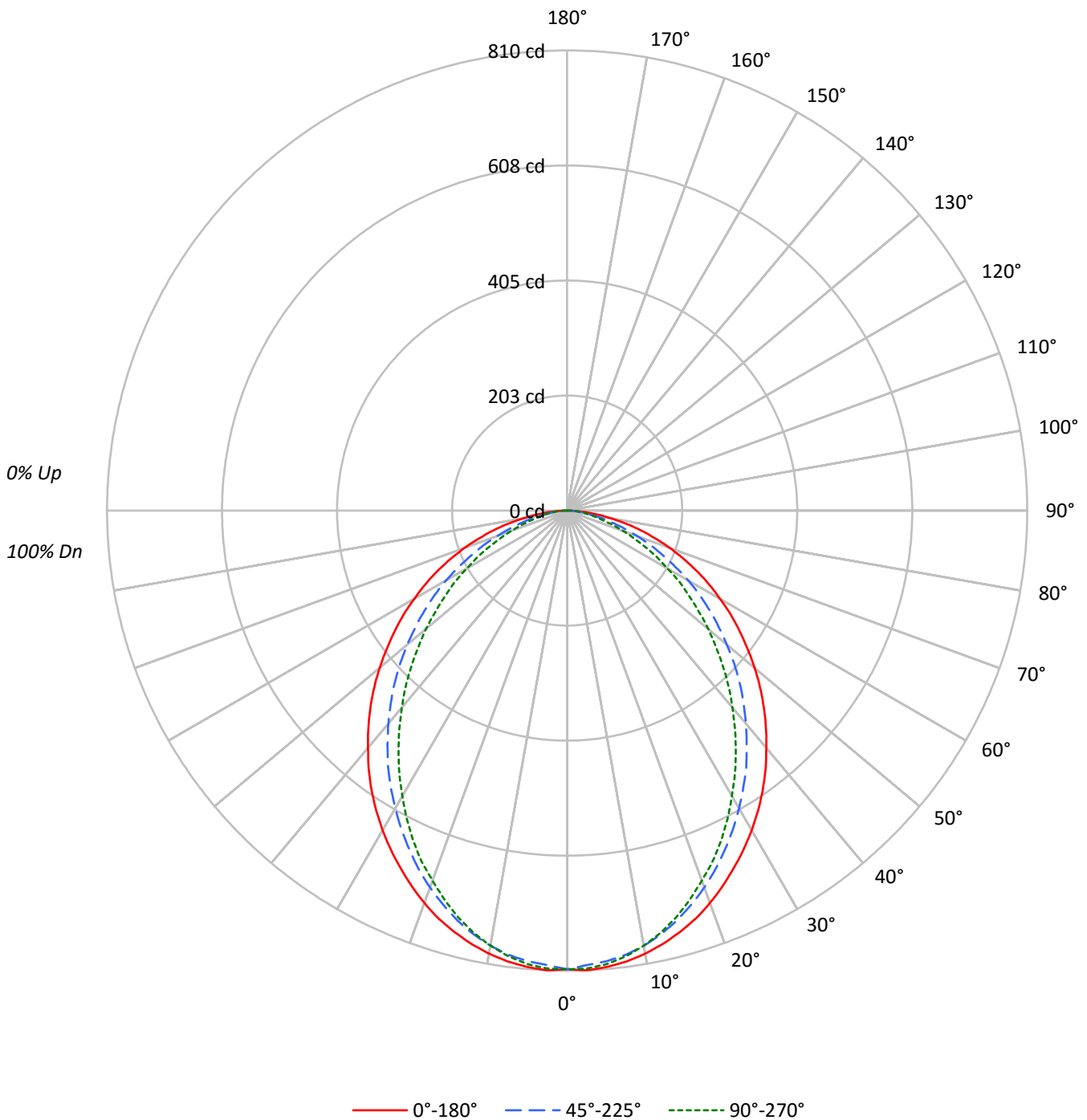
Input Watts (W): 18.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P334256

CATALOG NUMBER: S124RDS-S575D935-4F0-1E-UDD-F

### Luminous Intensity Polar Plot





TEST NUMBER: P334256

CATALOG NUMBER: S124RDS-S575D935-4F0-1E-UDD-F

**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	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					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°	6518	6518	6518
5°	6533	6453	6493
10°	6492	6375	6375
15°	6417	6242	6195
20°	6315	6065	5954
25°	6184	5859	5711
30°	6056	5642	5406
35°	5916	5416	5100
40°	5747	5160	4769
45°	5590	4906	4432
50°	5412	4612	4077
55°	5220	4307	3689
60°	5010	3974	3294
65°	4818	3555	2905
70°	4539	3094	2467
75°	4186	2564	2006
80°	3649	1953	1841
85°	3094	1778	1658



TEST NUMBER: P334256

CATALOG NUMBER: S124RDS-S575D935-4F0-1E-UDD-F

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.9	4.1
10°-20°	211.7	11.3
20°-30°	305.6	16.4
30°-40°	346.4	18.6
40°-50°	334.4	17.9
50°-60°	278.0	14.9
60°-70°	191.9	10.3
70°-80°	97.0	5.2
80°-90°	24.6	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°	593.2	31.8
0°-40°	939.6	50.4
0°-60°	1552.1	83.2
0°-90°	1865.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1865.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	807	807	807	807	807	
5°	806	804	796	802	801	77
15°	768	762	747	746	741	216
25°	694	683	658	647	641	320
35°	600	580	550	529	518	375
45°	490	467	430	399	388	378
55°	371	346	306	274	262	332
65°	252	226	186	160	152	249
75°	134	111	82	68	64	142
85°	33	21	19	18	18	39
90°	0	0	0	0	0	



TEST NUMBER: P334256

CATALOG NUMBER: S124RDS-S575D935-4F0-1E-UDD-F

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	807.4	807.4	807.4	807.4	807.4
2.5°	809.9	807.4	800.6	807.4	806.8
5°	806.2	803.7	796.3	802.4	801.2
7.5°	800.6	798.1	788.8	793.2	791.3
10°	791.9	788.8	777.7	780.2	777.7
12.5°	780.8	777.1	763.5	764.7	761.0
15°	767.8	762.3	746.8	745.6	741.2
17.5°	753.0	745.0	727.0	723.9	717.8
20°	735.1	727.0	706.0	701.1	693.0
22.5°	715.3	706.0	683.1	675.1	668.9
25°	694.3	683.1	657.8	647.3	641.1
27.5°	672.6	659.0	632.4	620.1	611.4
30°	649.7	634.3	605.2	589.8	579.9
32.5°	625.6	607.7	577.4	558.9	549.6
35°	600.3	580.5	549.6	528.6	517.5
37.5°	573.7	553.3	519.3	496.4	485.3
40°	545.3	524.9	489.6	463.7	452.5
42.5°	518.1	496.4	459.3	432.8	421.0
45°	489.6	466.8	429.7	399.4	388.2
47.5°	460.6	437.1	398.8	367.2	354.9
50°	430.9	406.8	367.2	336.3	324.6
52.5°	400.6	377.1	336.3	304.8	292.4
55°	370.9	346.2	306.0	273.9	262.1
57.5°	341.9	315.9	276.3	243.6	234.9
60°	310.3	285.6	246.1	213.9	204.0
62.5°	281.9	255.9	215.1	186.1	178.7
65°	252.2	225.7	186.1	159.5	152.1
67.5°	221.3	196.0	158.9	135.4	126.7
70°	192.3	166.3	131.1	110.7	104.5
72.5°	161.4	138.5	105.7	89.0	83.5
75°	134.2	111.3	82.2	68.0	64.3
77.5°	105.7	85.9	61.2	51.3	50.1
80°	78.5	60.6	42.0	40.2	39.6
82.5°	55.0	38.9	30.3	29.1	28.4
85°	33.4	21.0	19.2	17.9	17.9
87.5°	14.2	9.3	8.7	8.0	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)