

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: P334186

Luminaire Tested: **S124DS-S575D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334186  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: NEO-RAY  
Catalog Number: S124DS-S575D935-4F0-1E-UDD-F  
Description: DEFINE 4 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: 1980.3 lumens  
Efficiency: N/A  
Efficacy: 105.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.29  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Direct

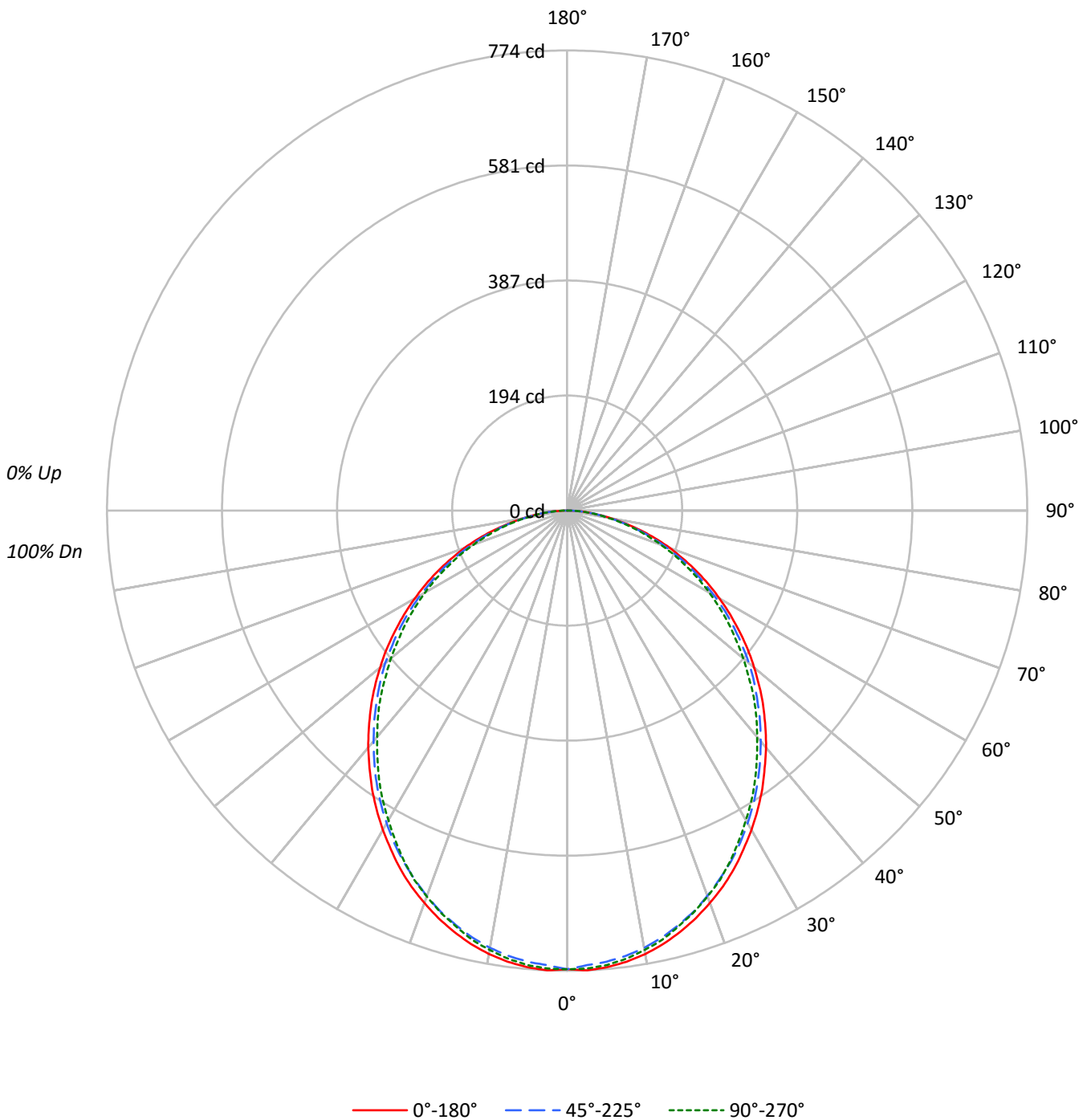
Input Watts (W): 18.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	52	43	37	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	34	46	39	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	52	40	33	28	39	32	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	6228	6228	6228
5°	6247	6172	6217
10°	6208	6122	6152
15°	6133	6035	6050
20°	6033	5927	5933
25°	5920	5804	5788
30°	5780	5659	5607
35°	5636	5508	5435
40°	5485	5336	5239
45°	5329	5166	5068
50°	5156	5016	4860
55°	4968	4821	4664
60°	4781	4602	4461
65°	4571	4394	4216
70°	4334	4114	3954
75°	3974	3780	3684
80°	3533	3394	3305
85°	3094	2973	2918



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.7	3.7
10°-20°	204.9	10.3
20°-30°	301.5	15.2
30°-40°	350.5	17.7
40°-50°	350.5	17.7
50°-60°	306.5	15.5
60°-70°	227.6	11.5
70°-80°	129.1	6.5
80°-90°	37.0	1.9
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°	579.1	29.2
0°-40°	929.6	46.9
0°-60°	1586.6	80.1
0°-90°	1980.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1980.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	772	772	772	772	772	
5°	771	768	762	768	767	73
15°	734	731	722	726	724	207
25°	665	660	652	652	650	306
35°	572	568	559	554	552	358
45°	467	462	452	446	444	360
55°	353	351	342	335	331	316
65°	239	236	230	224	221	237
75°	127	124	121	119	118	135
85°	33	33	32	32	32	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	771.5	771.5	771.5	771.5	771.5
2.5°	774.0	772.2	765.4	771.5	770.9
5°	770.9	768.4	761.6	768.4	767.2
7.5°	765.4	762.9	755.5	761.0	760.4
10°	757.3	754.8	746.8	751.8	750.5
12.5°	746.8	744.3	735.7	741.2	739.4
15°	733.8	731.4	722.1	725.8	723.9
17.5°	719.0	715.9	707.2	709.7	708.5
20°	702.3	699.2	689.9	691.8	690.6
22.5°	684.4	680.0	670.8	674.5	672.0
25°	664.6	660.3	651.6	652.2	649.8
27.5°	642.3	638.0	630.0	628.7	625.6
30°	620.1	615.1	607.1	604.6	601.5
32.5°	596.6	592.3	583.6	580.5	577.4
35°	571.9	567.5	558.9	554.5	551.5
37.5°	545.9	542.2	532.9	528.6	524.3
40°	520.5	515.6	506.3	500.1	497.1
42.5°	493.3	490.9	480.4	472.9	471.1
45°	466.8	462.4	452.5	445.7	443.9
47.5°	438.9	435.8	426.6	419.2	414.2
50°	410.5	408.0	399.4	390.7	387.0
52.5°	382.7	379.6	370.3	362.9	358.0
55°	353.0	351.1	342.5	335.1	331.4
57.5°	325.2	323.3	314.7	307.3	303.5
60°	296.1	293.0	285.0	279.4	276.3
62.5°	267.7	265.2	256.6	251.6	248.5
65°	239.3	236.2	230.0	223.8	220.7
67.5°	210.2	207.7	201.5	195.4	194.7
70°	183.6	179.3	174.3	169.4	167.5
72.5°	155.2	150.8	147.1	143.4	141.6
75°	127.4	124.3	121.2	118.7	118.1
77.5°	100.2	98.9	95.8	95.2	93.4
80°	76.0	74.2	73.0	71.7	71.1
82.5°	52.5	51.9	51.9	51.3	50.7
85°	33.4	33.4	32.1	32.1	31.5
87.5°	16.1	15.5	14.8	14.8	14.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)