

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: P334187

Luminaire Tested: **S124DS-S795D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P334187  
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-S795D935-4F0-1E-UDD-F  
Description: DEFINE 4 DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER  
PENDANT/SURFACE/WALL MOUNT, 795 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2758.0 lumens  
Efficiency: N/A  
Efficacy: 104.9 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

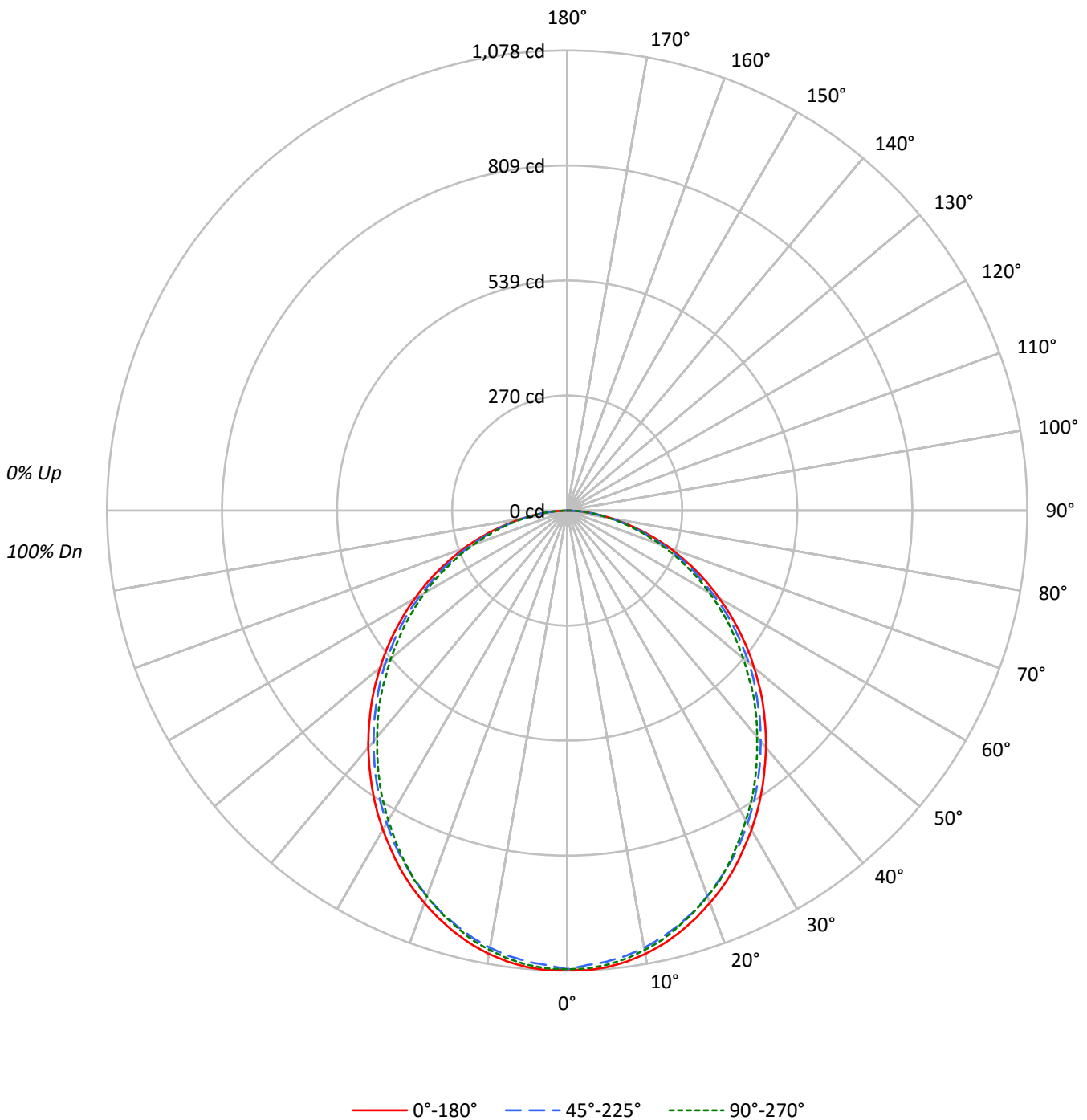
Input Watts (W): 26.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	8674	8674	8674
5°	8701	8596	8659
10°	8646	8526	8569
15°	8542	8405	8426
20°	8403	8255	8262
25°	8245	8084	8060
30°	8050	7882	7810
35°	7849	7670	7569
40°	7640	7432	7295
45°	7422	7196	7058
50°	7180	6985	6769
55°	6919	6714	6495
60°	6659	6408	6215
65°	6365	6118	5872
70°	6035	5731	5507
75°	5533	5265	5131
80°	4923	4723	4603
85°	4307	4150	4066



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.3	3.7
10°-20°	285.3	10.3
20°-30°	419.9	15.2
30°-40°	488.2	17.7
40°-50°	488.1	17.7
50°-60°	426.9	15.5
60°-70°	316.9	11.5
70°-80°	179.8	6.5
80°-90°	51.5	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°	806.6	29.2
0°-40°	1294.7	46.9
0°-60°	2209.7	80.1
0°-90°	2758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2758.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1074	1070	1061	1070	1068	102
15°	1022	1019	1006	1011	1008	288
25°	926	920	908	908	905	426
35°	796	790	778	772	768	498
45°	650	644	630	621	618	501
55°	492	489	477	467	462	440
65°	333	329	320	312	307	330
75°	177	173	169	165	164	188
85°	46	46	45	45	44	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1074.5	1074.5	1074.5	1074.5	1074.5
2.5°	1078.0	1075.4	1065.9	1074.5	1073.7
5°	1073.7	1070.2	1060.8	1070.2	1068.5
7.5°	1065.9	1062.5	1052.1	1059.9	1059.0
10°	1054.7	1051.3	1040.1	1047.0	1045.3
12.5°	1040.1	1036.6	1024.6	1032.3	1029.8
15°	1022.0	1018.6	1005.6	1010.8	1008.2
17.5°	1001.3	997.0	985.0	988.4	986.7
20°	978.1	973.8	960.9	963.5	961.7
22.5°	953.1	947.1	934.2	939.4	935.9
25°	925.6	919.5	907.5	908.4	904.9
27.5°	894.6	888.6	877.4	875.6	871.3
30°	863.6	856.7	845.5	842.1	837.8
32.5°	830.9	824.8	812.8	808.5	804.2
35°	796.4	790.4	778.3	772.3	768.0
37.5°	760.3	755.1	742.2	736.2	730.1
40°	725.0	718.1	705.2	696.6	692.2
42.5°	687.1	683.6	669.0	658.7	656.1
45°	650.1	644.0	630.3	620.8	618.2
47.5°	611.3	607.0	594.1	583.8	576.9
50°	571.7	568.3	556.2	544.2	539.0
52.5°	533.0	528.7	515.7	505.4	498.5
55°	491.6	489.0	477.0	466.7	461.5
57.5°	452.9	450.3	438.2	427.9	422.8
60°	412.4	408.1	396.9	389.2	384.9
62.5°	372.8	369.4	357.3	350.4	346.1
65°	333.2	328.9	320.3	311.7	307.4
67.5°	292.7	289.3	280.7	272.1	271.2
70°	255.7	249.7	242.8	235.9	233.3
72.5°	216.1	210.1	204.9	199.8	197.2
75°	177.4	173.1	168.8	165.3	164.5
77.5°	139.5	137.8	133.5	132.6	130.0
80°	105.9	103.3	101.6	99.9	99.0
82.5°	73.2	72.3	72.3	71.5	70.6
85°	46.5	46.5	44.8	44.8	43.9
87.5°	22.4	21.5	20.7	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)