

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: P243475

Luminaire Tested: **S124DR-H795D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-84)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124DR-H795D930-X4F0-XX-UDD-F-W
Description: DEFINE 4 DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2579.5 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

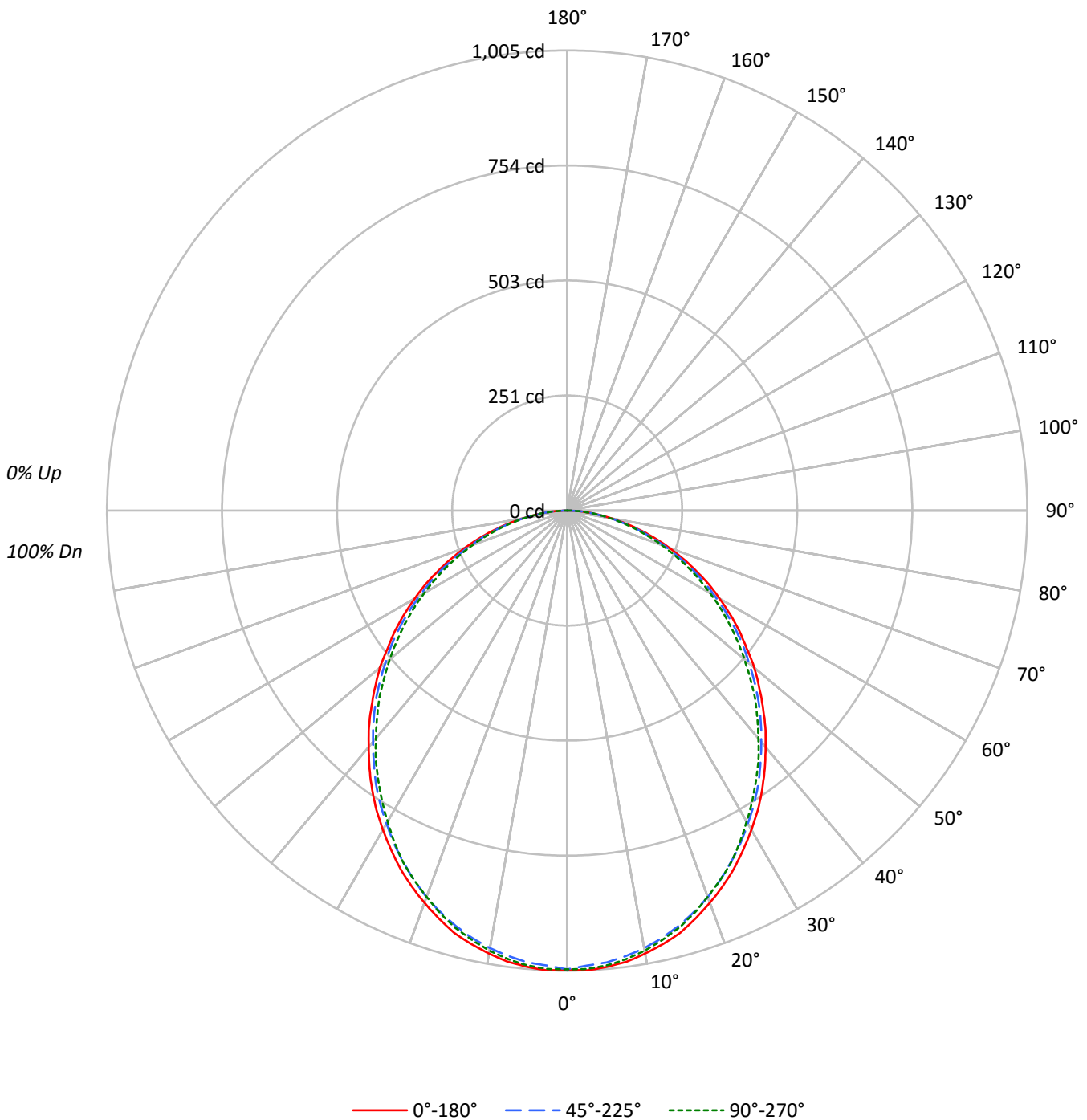
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	46	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	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	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8907	8907	8907
5°	8926	8839	8897
10°	8867	8757	8809
15°	8786	8643	8681
20°	8622	8499	8491
25°	8460	8308	8316
30°	8259	8100	8050
35°	8059	7901	7803
40°	7824	7654	7540
45°	7594	7441	7297
50°	7385	7170	6990
55°	7113	6924	6709
60°	6841	6610	6407
65°	6516	6293	6087
70°	6167	5892	5699
75°	5684	5461	5292
80°	5006	4924	4802
85°	4406	4406	4324



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.5	3.7
10°-20°	266.3	10.3
20°-30°	392.2	15.2
30°-40°	456.4	17.7
40°-50°	456.6	17.7
50°-60°	399.3	15.5
60°-70°	296.6	11.5
70°-80°	169.0	6.6
80°-90°	48.7	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°	753.1	29.2
0°-40°	1209.4	46.9
0°-60°	2065.3	80.1
0°-90°	2579.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2579.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1002	1002	1002	1002	1002	
5°	1000	999	991	998	997	95
15°	955	950	939	945	943	269
25°	863	858	847	850	848	397
35°	743	736	728	722	719	464
45°	604	602	592	583	580	467
55°	459	456	447	437	433	410
65°	310	307	299	293	289	307
75°	166	162	159	156	154	176
85°	43	42	43	42	42	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1002.0	1002.0	1002.0	1002.0	1002.0
2.5°	1005.3	1002.8	994.7	1002.8	1002.0
5°	1000.4	998.7	990.6	997.9	997.1
7.5°	993.9	990.6	981.6	989.0	988.1
10°	982.4	980.0	970.2	977.5	975.9
12.5°	969.4	966.9	956.3	962.1	960.4
15°	954.7	949.8	939.2	944.9	943.3
17.5°	933.5	930.3	919.7	924.5	922.1
20°	911.5	907.4	898.5	899.3	897.6
22.5°	887.9	883.8	873.2	876.4	873.2
25°	862.6	858.5	847.1	849.5	847.9
27.5°	834.1	830.0	819.4	820.2	816.9
30°	804.7	799.8	789.2	788.4	784.3
32.5°	775.4	770.5	759.9	756.6	752.5
35°	742.7	736.2	728.1	721.5	719.1
37.5°	709.3	706.0	693.8	689.7	686.5
40°	674.3	671.0	659.6	653.9	649.8
42.5°	640.8	636.7	626.2	618.0	614.7
45°	604.1	601.7	591.9	582.9	580.5
47.5°	568.3	567.4	555.2	546.3	542.2
50°	534.0	529.1	518.5	510.4	505.5
52.5°	494.1	493.3	484.3	473.7	469.6
55°	459.0	455.8	446.8	437.0	432.9
57.5°	422.3	420.7	409.3	401.1	397.1
60°	384.8	381.6	371.8	364.4	360.4
62.5°	348.9	344.9	335.9	328.6	324.5
65°	309.8	307.4	299.2	292.7	289.4
67.5°	273.1	269.9	261.7	256.0	252.7
70°	237.3	232.4	226.7	221.8	219.3
72.5°	201.4	197.3	192.4	189.1	185.9
75°	165.5	162.2	159.0	155.7	154.1
77.5°	131.3	128.0	126.4	125.6	123.9
80°	97.8	96.2	96.2	95.4	93.8
82.5°	69.3	67.7	67.7	67.7	66.9
85°	43.2	42.4	43.2	41.6	42.4
87.5°	20.4	20.4	21.2	20.4	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)