

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: P243473

Luminaire Tested: **S124DR-H350D930-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243473
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-H350D930-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: 1156.5 lumens
Efficiency: N/A
Efficacy: 103.3 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

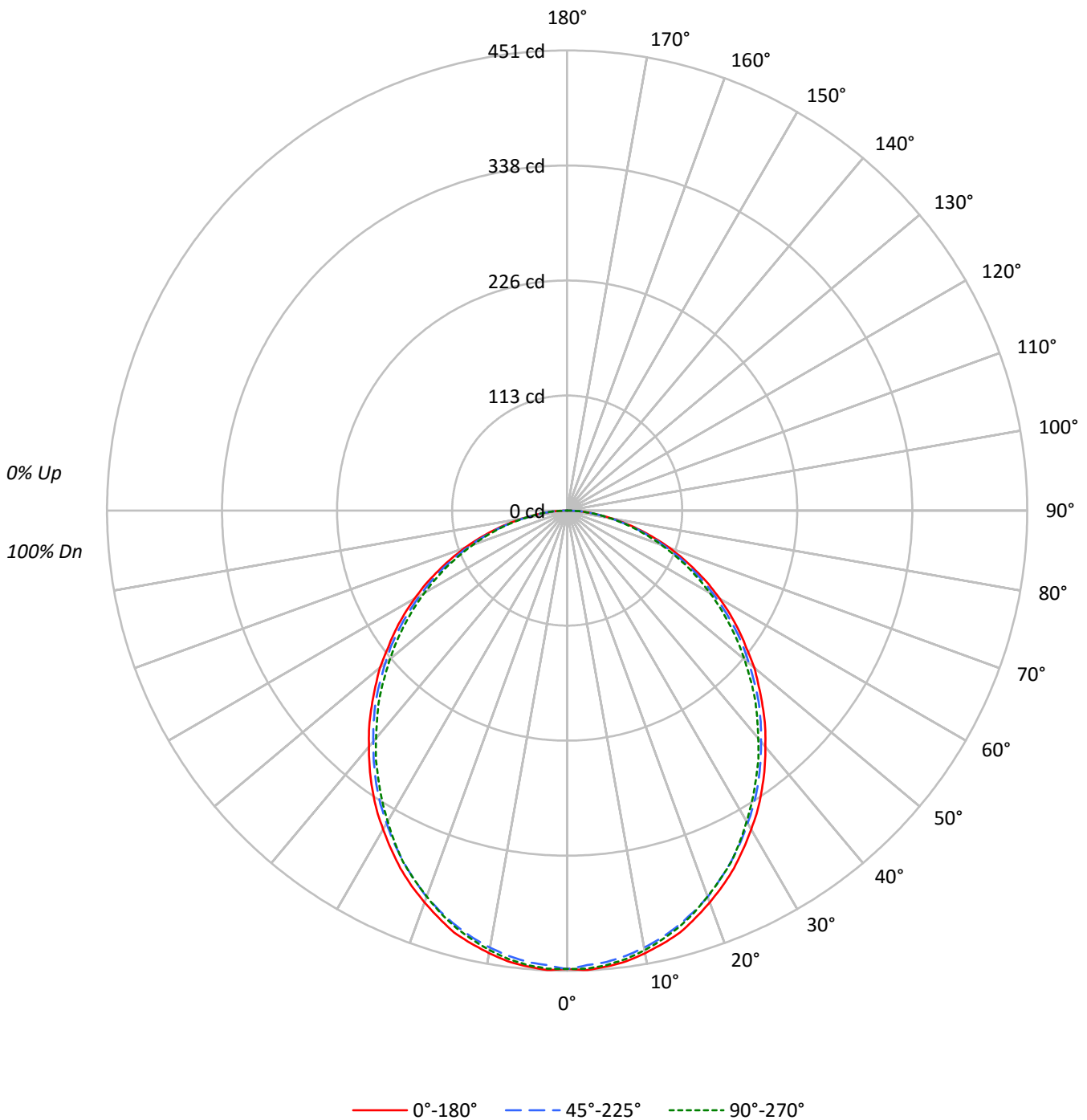
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	49	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°	3994	3994	3994
5°	4002	3963	3989
10°	3976	3926	3950
15°	3940	3875	3892
20°	3866	3810	3807
25°	3794	3725	3729
30°	3703	3632	3610
35°	3614	3542	3498
40°	3508	3431	3380
45°	3405	3336	3272
50°	3311	3215	3134
55°	3189	3104	3008
60°	3067	2964	2873
65°	2921	2823	2730
70°	2765	2641	2555
75°	2548	2449	2373
80°	2247	2206	2150
85°	1979	1979	1938



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	3.7
10°-20°	119.4	10.3
20°-30°	175.9	15.2
30°-40°	204.6	17.7
40°-50°	204.7	17.7
50°-60°	179.0	15.5
60°-70°	133.0	11.5
70°-80°	75.8	6.6
80°-90°	21.8	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°	337.7	29.2
0°-40°	542.3	46.9
0°-60°	926.0	80.1
0°-90°	1156.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	449	449	449	449	449	
5°	448	448	444	447	447	43
15°	428	426	421	424	423	120
25°	387	385	380	381	380	178
35°	333	330	326	324	322	208
45°	271	270	265	261	260	209
55°	206	204	200	196	194	184
65°	139	138	134	131	130	138
75°	74	73	71	70	69	79
85°	19	19	19	19	19	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	449.3	449.3	449.3	449.3	449.3
2.5°	450.7	449.6	446.0	449.6	449.3
5°	448.5	447.8	444.1	447.4	447.1
7.5°	445.6	444.1	440.1	443.4	443.1
10°	440.5	439.4	435.0	438.3	437.6
12.5°	434.6	433.5	428.8	431.4	430.6
15°	428.1	425.9	421.1	423.7	422.9
17.5°	418.6	417.1	412.3	414.5	413.4
20°	408.7	406.9	402.8	403.2	402.5
22.5°	398.1	396.3	391.5	393.0	391.5
25°	386.8	384.9	379.8	380.9	380.2
27.5°	374.0	372.1	367.4	367.7	366.3
30°	360.8	358.6	353.9	353.5	351.7
32.5°	347.6	345.4	340.7	339.2	337.4
35°	333.0	330.1	326.4	323.5	322.4
37.5°	318.0	316.6	311.1	309.3	307.8
40°	302.3	300.9	295.7	293.2	291.3
42.5°	287.3	285.5	280.7	277.1	275.6
45°	270.9	269.8	265.4	261.4	260.3
47.5°	254.8	254.4	248.9	244.9	243.1
50°	239.4	237.2	232.5	228.8	226.6
52.5°	221.5	221.2	217.1	212.4	210.6
55°	205.8	204.3	200.3	195.9	194.1
57.5°	189.4	188.6	183.5	179.9	178.0
60°	172.5	171.1	166.7	163.4	161.6
62.5°	156.5	154.6	150.6	147.3	145.5
65°	138.9	137.8	134.2	131.2	129.8
67.5°	122.5	121.0	117.3	114.8	113.3
70°	106.4	104.2	101.6	99.4	98.3
72.5°	90.3	88.5	86.3	84.8	83.3
75°	74.2	72.7	71.3	69.8	69.1
77.5°	58.9	57.4	56.7	56.3	55.6
80°	43.9	43.1	43.1	42.8	42.0
82.5°	31.1	30.3	30.3	30.3	30.0
85°	19.4	19.0	19.4	18.6	19.0
87.5°	9.1	9.1	9.5	9.1	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)