

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: P242726

Luminaire Tested: **S124RDR-S350D940-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P242726
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: S124RDR-S350D940-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER
STANDARD LIGHT ENGINE
Light Source: (92) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1174.9 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

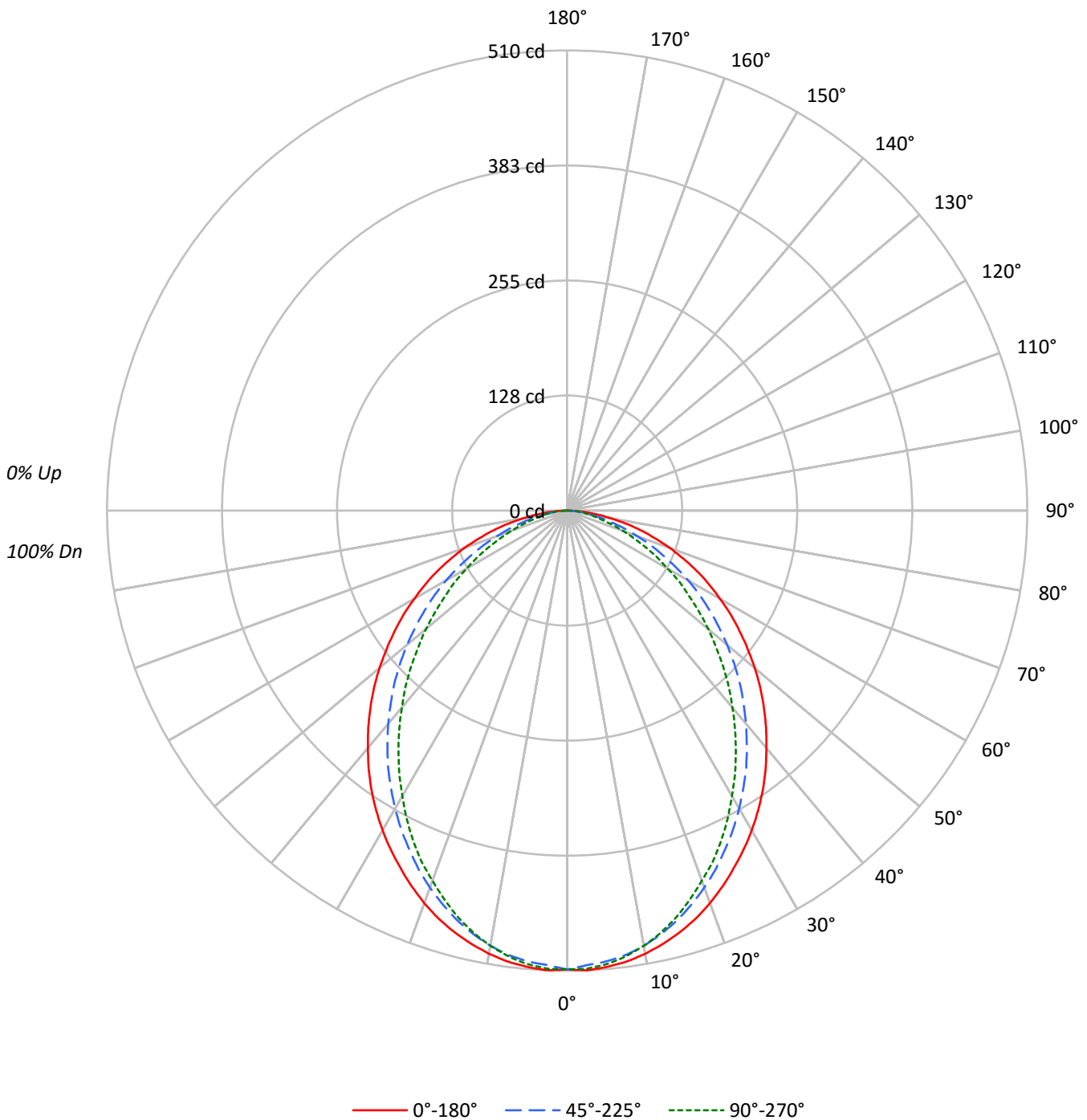
Input Watts (W): 11.6
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4520	4520	4520
5°	4530	4475	4502
10°	4501	4421	4421
15°	4450	4328	4296
20°	4379	4206	4129
25°	4288	4063	3959
30°	4200	3913	3748
35°	4103	3756	3536
40°	3985	3579	3307
45°	3877	3402	3074
50°	3753	3199	2827
55°	3620	2986	2559
60°	3474	2756	2284
65°	3342	2465	2015
70°	3147	2144	1710
75°	2902	1779	1391
80°	2529	1357	1275
85°	2142	1234	1152



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.8	4.1
10°-20°	133.3	11.3
20°-30°	192.5	16.4
30°-40°	218.1	18.6
40°-50°	210.6	17.9
50°-60°	175.1	14.9
60°-70°	120.9	10.3
70°-80°	61.1	5.2
80°-90°	15.5	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°	373.6	31.8
0°-40°	591.7	50.4
0°-60°	977.5	83.2
0°-90°	1174.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1174.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	508	508	508	508	508	
5°	508	506	502	505	505	48
15°	484	480	470	470	467	136
25°	437	430	414	408	404	201
35°	378	366	346	333	326	236
45°	308	294	271	252	244	238
55°	234	218	193	172	165	209
65°	159	142	117	100	96	157
75°	84	70	52	43	40	89
85°	21	13	12	11	11	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	508.5	508.5	508.5	508.5	508.5
2.5°	510.0	508.5	504.2	508.5	508.1
5°	507.7	506.1	501.5	505.4	504.6
7.5°	504.2	502.6	496.8	499.5	498.4
10°	498.7	496.8	489.8	491.3	489.8
12.5°	491.7	489.4	480.8	481.6	479.3
15°	483.6	480.1	470.3	469.5	466.8
17.5°	474.2	469.2	457.9	455.9	452.0
20°	462.9	457.9	444.6	441.5	436.5
22.5°	450.5	444.6	430.2	425.2	421.3
25°	437.2	430.2	414.3	407.6	403.7
27.5°	423.6	415.0	398.3	390.5	385.1
30°	409.2	399.5	381.2	371.4	365.2
32.5°	394.0	382.7	363.6	352.0	346.1
35°	378.1	365.6	346.1	332.9	325.9
37.5°	361.3	348.5	327.0	312.6	305.6
40°	343.4	330.6	308.4	292.0	285.0
42.5°	326.3	312.6	289.3	272.5	265.1
45°	308.4	294.0	270.6	251.5	244.5
47.5°	290.1	275.3	251.1	231.3	223.5
50°	271.4	256.2	231.3	211.8	204.4
52.5°	252.3	237.5	211.8	191.9	184.2
55°	233.6	218.0	192.7	172.5	165.1
57.5°	215.3	199.0	174.0	153.4	147.9
60°	195.4	179.9	155.0	134.7	128.5
62.5°	177.5	161.2	135.5	117.2	112.5
65°	158.9	142.1	117.2	100.5	95.8
67.5°	139.4	123.4	100.1	85.3	79.8
70°	121.1	104.7	82.5	69.7	65.8
72.5°	101.6	87.2	66.6	56.1	52.6
75°	84.5	70.1	51.8	42.8	40.5
77.5°	66.6	54.1	38.5	32.3	31.5
80°	49.4	38.2	26.5	25.3	24.9
82.5°	34.7	24.5	19.1	18.3	17.9
85°	21.0	13.2	12.1	11.3	11.3
87.5°	9.0	5.8	5.5	5.1	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)