

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: P243567

Luminaire Tested: **S124RDR-H350D835-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243567
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1802-639-65)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: NEO-RAY
Catalog Number: S124RDR-H350D835-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1337.6 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.1 / 1.25
Luminous Opening: Rectangular (W 0.31' x L: 3.88' x H: 0')
CIE Type: Direct

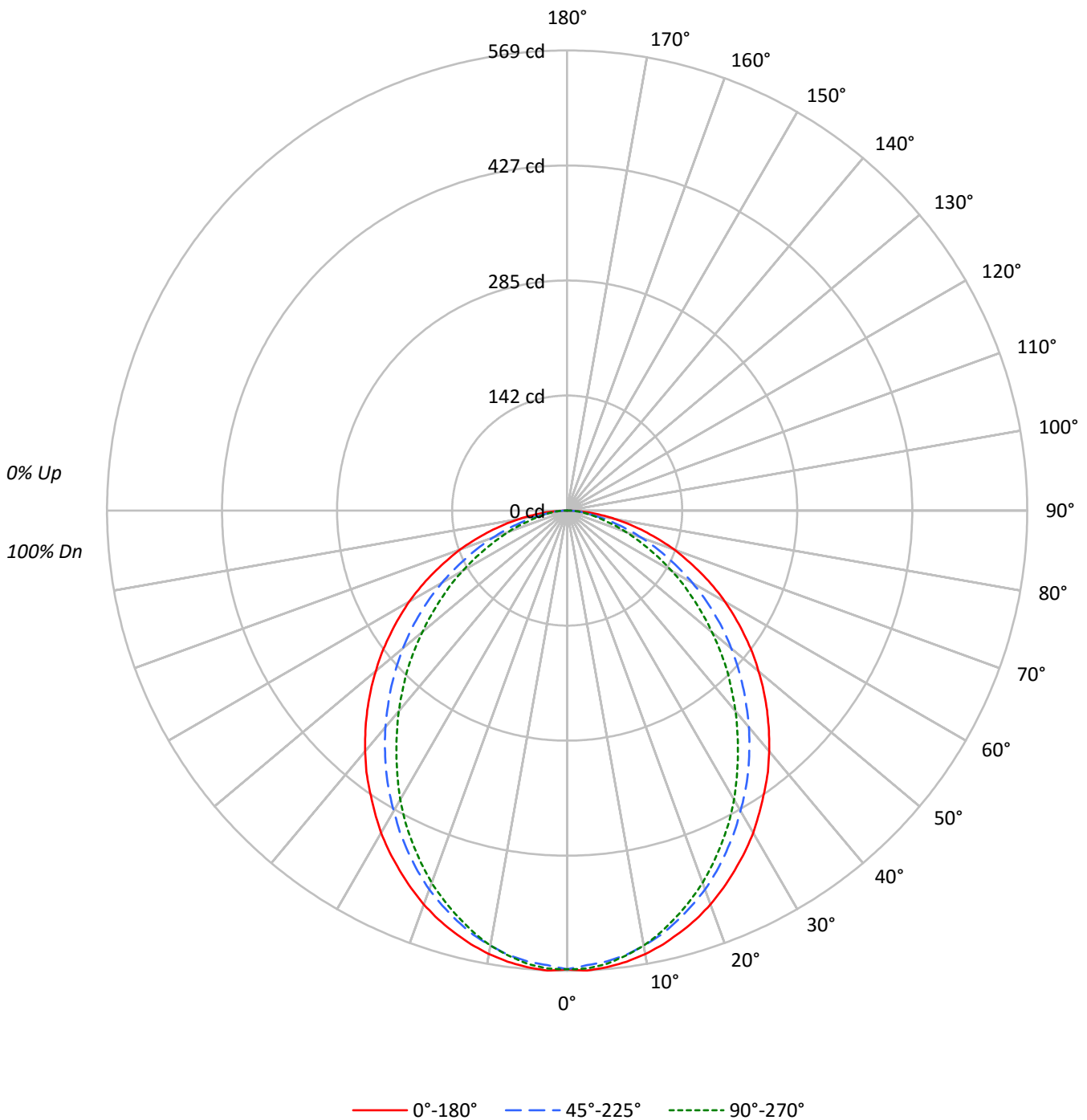
Input Watts (W): 11.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	78	84	79	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	71	64	57	69	62	57	67	61	56	64	59	55	53
5	78	65	57	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	44	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	39	49	43	38	36
8	62	49	41	35	61	49	41	35	47	40	35	46	39	35	45	39	34	33
9	58	45	37	32	57	45	37	32	44	37	32	42	36	31	41	36	31	30
10	55	42	34	29	54	41	34	29	40	34	29	39	33	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5042	5042	5042
5°	5057	4994	5020
10°	5026	4931	4931
15°	4969	4835	4789
20°	4903	4716	4633
25°	4812	4566	4443
30°	4722	4400	4237
35°	4611	4239	3993
40°	4508	4057	3760
45°	4395	3863	3515
50°	4272	3665	3230
55°	4139	3439	2946
60°	4011	3179	2649
65°	3839	2871	2316
70°	3657	2534	2012
75°	3379	2112	1638
80°	3087	1648	1500
85°	2733	1581	1499



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.3	4.0
10°-20°	149.0	11.1
20°-30°	216.0	16.2
30°-40°	246.2	18.4
40°-50°	239.6	17.9
50°-60°	201.3	15.0
60°-70°	140.2	10.5
70°-80°	72.4	5.4
80°-90°	19.6	1.5
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°	418.4	31.3
0°-40°	664.6	49.7
0°-60°	1105.4	82.6
0°-90°	1337.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1337.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	567	567	567	567	567	
5°	567	565	560	564	563	54
15°	540	536	525	524	520	152
25°	491	481	466	459	453	226
35°	425	412	391	376	368	266
45°	350	333	307	288	280	270
55°	267	250	222	199	190	239
65°	182	165	136	117	110	181
75°	98	83	62	52	48	105
85°	27	17	16	15	15	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	567.2	567.2	567.2	567.2	567.2
2.5°	569.3	567.7	562.6	567.2	566.8
5°	566.8	565.2	559.7	563.9	562.6
7.5°	562.6	560.5	554.3	557.2	555.1
10°	556.8	554.7	546.3	548.4	546.3
12.5°	549.2	546.3	537.1	537.5	534.2
15°	540.0	535.8	525.4	524.5	520.4
17.5°	530.0	524.5	512.4	510.3	505.7
20°	518.3	511.6	498.6	494.0	489.8
22.5°	504.9	496.9	482.7	477.2	471.8
25°	490.6	481.4	465.5	458.8	453.0
27.5°	476.0	465.1	447.9	439.6	433.7
30°	460.1	447.5	428.7	419.0	412.8
32.5°	442.5	429.9	410.3	398.5	390.6
35°	424.9	411.9	390.6	375.9	368.0
37.5°	407.7	393.1	370.1	355.0	345.8
40°	388.5	373.0	349.6	332.4	324.0
42.5°	369.2	353.3	328.2	310.2	301.0
45°	349.6	332.8	307.3	287.6	279.6
47.5°	329.5	312.7	286.3	265.8	256.6
50°	308.9	292.2	265.0	242.4	233.6
52.5°	288.9	271.3	244.1	221.0	211.8
55°	267.1	249.9	221.9	199.3	190.1
57.5°	246.2	228.2	200.9	177.9	170.4
60°	225.6	207.6	178.8	156.6	149.0
62.5°	203.9	185.9	157.4	136.1	129.4
65°	182.5	164.9	136.5	116.8	110.1
67.5°	160.8	144.8	117.2	98.4	92.9
70°	140.7	122.7	97.5	81.2	77.4
72.5°	119.3	103.4	79.1	65.7	62.8
75°	98.4	83.3	61.5	51.5	47.7
77.5°	79.1	64.5	46.5	38.1	38.1
80°	60.3	47.3	32.2	30.1	29.3
82.5°	42.7	30.6	23.9	22.2	21.8
85°	26.8	17.2	15.5	14.7	14.7
87.5°	13.0	8.0	8.0	7.5	7.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)