

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: P243558

Luminaire Tested: **S124RDR-H575D927-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243558
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-H575D927-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1687.5 lumens
Efficiency: N/A
Efficacy: 98.1 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

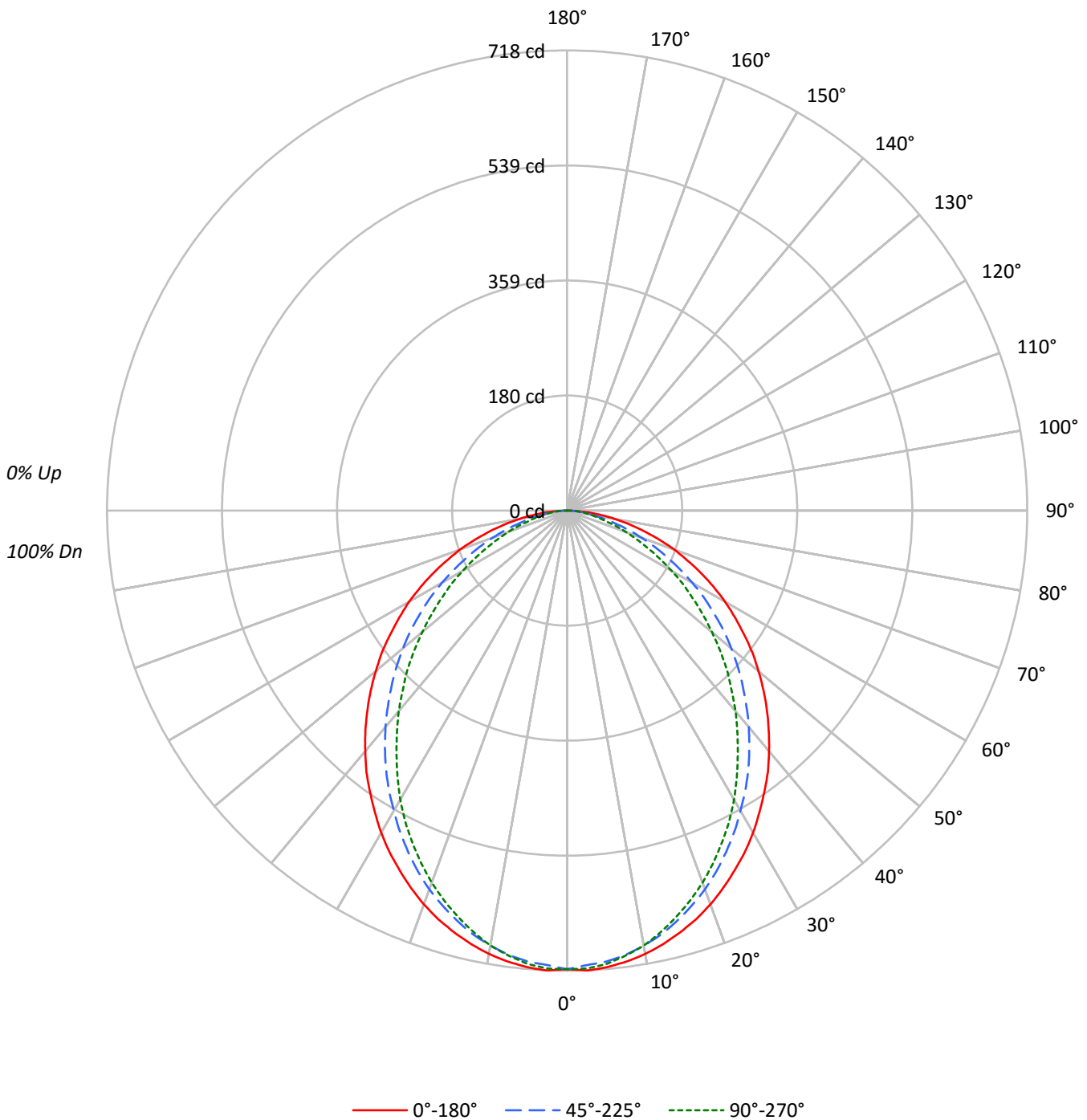
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	6361	6361	6361
5°	6381	6300	6333
10°	6340	6221	6221
15°	6270	6099	6041
20°	6185	5950	5845
25°	6071	5760	5604
30°	5957	5551	5344
35°	5817	5346	5037
40°	5687	5117	4744
45°	5544	4872	4435
50°	5390	4623	4075
55°	5221	4338	3716
60°	5061	4009	3342
65°	4844	3622	2921
70°	4613	3199	2539
75°	4262	2665	2068
80°	3895	2083	1894
85°	3447	1989	1887



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.3	4.0
10°-20°	187.9	11.1
20°-30°	272.5	16.2
30°-40°	310.6	18.4
40°-50°	302.2	17.9
50°-60°	253.9	15.0
60°-70°	176.9	10.5
70°-80°	91.3	5.4
80°-90°	24.7	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°	527.8	31.3
0°-40°	838.4	49.7
0°-60°	1394.6	82.6
0°-90°	1687.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1687.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	716	716	716	716	716	
5°	715	713	706	711	710	68
15°	681	676	663	662	656	192
25°	619	607	587	579	571	285
35°	536	520	493	474	464	336
45°	441	420	388	363	353	340
55°	337	315	280	251	240	302
65°	230	208	172	147	139	228
75°	124	105	78	65	60	132
85°	34	22	20	18	18	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	715.6	715.6	715.6	715.6	715.6
2.5°	718.3	716.1	709.8	715.6	715.1
5°	715.1	713.0	706.1	711.4	709.8
7.5°	709.8	707.2	699.2	702.9	700.3
10°	702.4	699.8	689.2	691.9	689.2
12.5°	692.9	689.2	677.6	678.1	673.9
15°	681.3	676.0	662.8	661.8	656.5
17.5°	668.6	661.8	646.4	643.8	638.0
20°	653.8	645.4	629.0	623.2	617.9
22.5°	636.9	626.9	608.9	602.1	595.2
25°	619.0	607.4	587.3	578.8	571.4
27.5°	600.5	586.8	565.1	554.5	547.1
30°	580.4	564.6	540.8	528.7	520.7
32.5°	558.2	542.4	517.6	502.8	492.7
35°	536.1	519.7	492.7	474.3	464.2
37.5°	514.4	495.9	466.9	447.9	436.2
40°	490.1	470.6	441.0	419.3	408.8
42.5°	465.8	445.7	414.1	391.3	379.7
45°	441.0	419.9	387.6	362.8	352.8
47.5°	415.6	394.5	361.2	335.4	323.7
50°	389.8	368.6	334.3	305.8	294.7
52.5°	364.4	342.2	307.9	278.9	267.2
55°	336.9	315.3	279.9	251.4	239.8
57.5°	310.5	287.8	253.5	224.5	215.0
60°	284.7	262.0	225.5	197.5	188.0
62.5°	257.2	234.5	198.6	171.6	163.2
65°	230.3	208.1	172.2	147.3	138.9
67.5°	202.8	182.7	147.9	124.1	117.2
70°	177.5	154.7	123.1	102.5	97.7
72.5°	150.5	130.4	99.8	82.9	79.2
75°	124.1	105.1	77.6	65.0	60.2
77.5°	99.8	81.3	58.6	48.1	48.1
80°	76.1	59.7	40.7	38.0	37.0
82.5°	53.9	38.6	30.1	28.0	27.5
85°	33.8	21.7	19.5	18.5	18.5
87.5°	16.4	10.0	10.0	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)