

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: P243572

Luminaire Tested: **S124RDR-H575D840-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243572
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-H575D840-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2151.2 lumens
Efficiency: N/A
Efficacy: 125.1 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

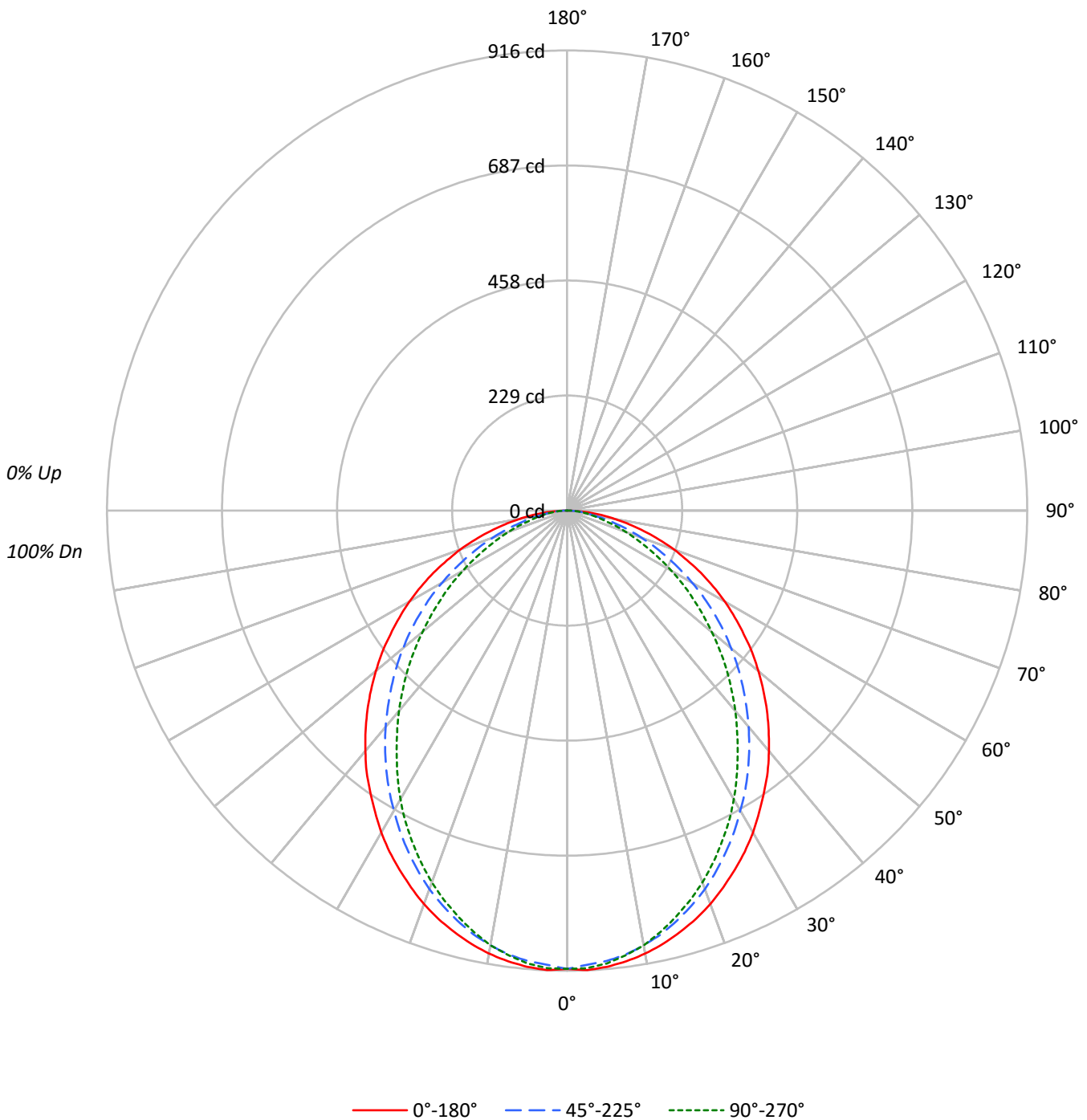
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	8109	8109	8109
5°	8134	8031	8074
10°	8082	7930	7930
15°	7992	7775	7702
20°	7884	7585	7451
25°	7739	7343	7145
30°	7594	7076	6813
35°	7416	6816	6422
40°	7250	6524	6047
45°	7067	6212	5653
50°	6871	5894	5195
55°	6656	5529	4738
60°	6452	5111	4261
65°	6173	4617	3725
70°	5879	4078	3238
75°	5433	3400	2638
80°	4960	2652	2411
85°	4396	2540	2407



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	4.0
10°-20°	239.6	11.1
20°-30°	347.4	16.2
30°-40°	396.0	18.4
40°-50°	385.3	17.9
50°-60°	323.7	15.0
60°-70°	225.5	10.5
70°-80°	116.4	5.4
80°-90°	31.5	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°	672.8	31.3
0°-40°	1068.8	49.7
0°-60°	1777.8	82.6
0°-90°	2151.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2151.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	912	912	912	912	912	
5°	912	909	900	907	905	86
15°	868	862	845	844	837	245
25°	789	774	749	738	728	364
35°	683	662	628	605	592	428
45°	562	535	494	462	450	434
55°	430	402	357	320	306	385
65°	294	265	220	188	177	291
75°	158	134	99	83	77	168
85°	43	28	25	24	24	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	912.3	912.3	912.3	912.3	912.3
2.5°	915.6	912.9	904.9	912.3	911.6
5°	911.6	908.9	900.1	906.9	904.9
7.5°	904.9	901.5	891.4	896.1	892.7
10°	895.4	892.1	878.6	882.0	878.6
12.5°	883.3	878.6	863.8	864.5	859.1
15°	868.5	861.8	844.9	843.6	836.9
17.5°	852.3	843.6	824.1	820.7	813.3
20°	833.5	822.7	801.8	794.4	787.7
22.5°	811.9	799.2	776.3	767.5	758.8
25°	789.1	774.2	748.7	737.9	728.5
27.5°	765.5	748.0	720.4	706.9	697.5
30°	739.9	719.7	689.4	673.9	663.8
32.5°	711.6	691.4	659.8	640.9	628.1
35°	683.4	662.5	628.1	604.6	591.8
37.5°	655.8	632.2	595.2	570.9	556.1
40°	624.8	599.9	562.2	534.6	521.1
42.5°	593.8	568.2	527.8	498.9	484.1
45°	562.2	535.2	494.2	462.5	449.7
47.5°	529.9	502.9	460.5	427.5	412.7
50°	496.9	469.9	426.2	389.8	375.7
52.5°	464.5	436.3	392.5	355.5	340.7
55°	429.5	401.9	356.8	320.5	305.7
57.5°	395.9	366.9	323.2	286.1	274.0
60°	362.9	333.9	287.5	251.8	239.7
62.5°	327.9	298.9	253.1	218.8	208.0
65°	293.5	265.3	219.5	187.8	177.1
67.5°	258.5	232.9	188.5	158.2	149.5
70°	226.2	197.3	156.9	130.6	124.6
72.5°	191.9	166.3	127.2	105.7	101.0
75°	158.2	134.0	99.0	82.8	76.8
77.5°	127.2	103.7	74.7	61.3	61.3
80°	96.9	76.1	51.8	48.5	47.1
82.5°	68.7	49.1	38.4	35.7	35.0
85°	43.1	27.6	24.9	23.6	23.6
87.5°	20.9	12.8	12.8	12.1	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)