

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: P243564

Luminaire Tested: **S124RDR-H795D830-X4F0-XX-UDD-F-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P243564
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-H795D830-X4F0-XX-UDD-F-W
Description: DEFINE 4 REGRESSED DIRECT RECESSED WITH SATIN FLUSH DIFFUSER.
HIGH PERFORMANCE LIGHT ENGINE
Light Source: (184) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2811.9 lumens
Efficiency: N/A
Efficacy: 119.1 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

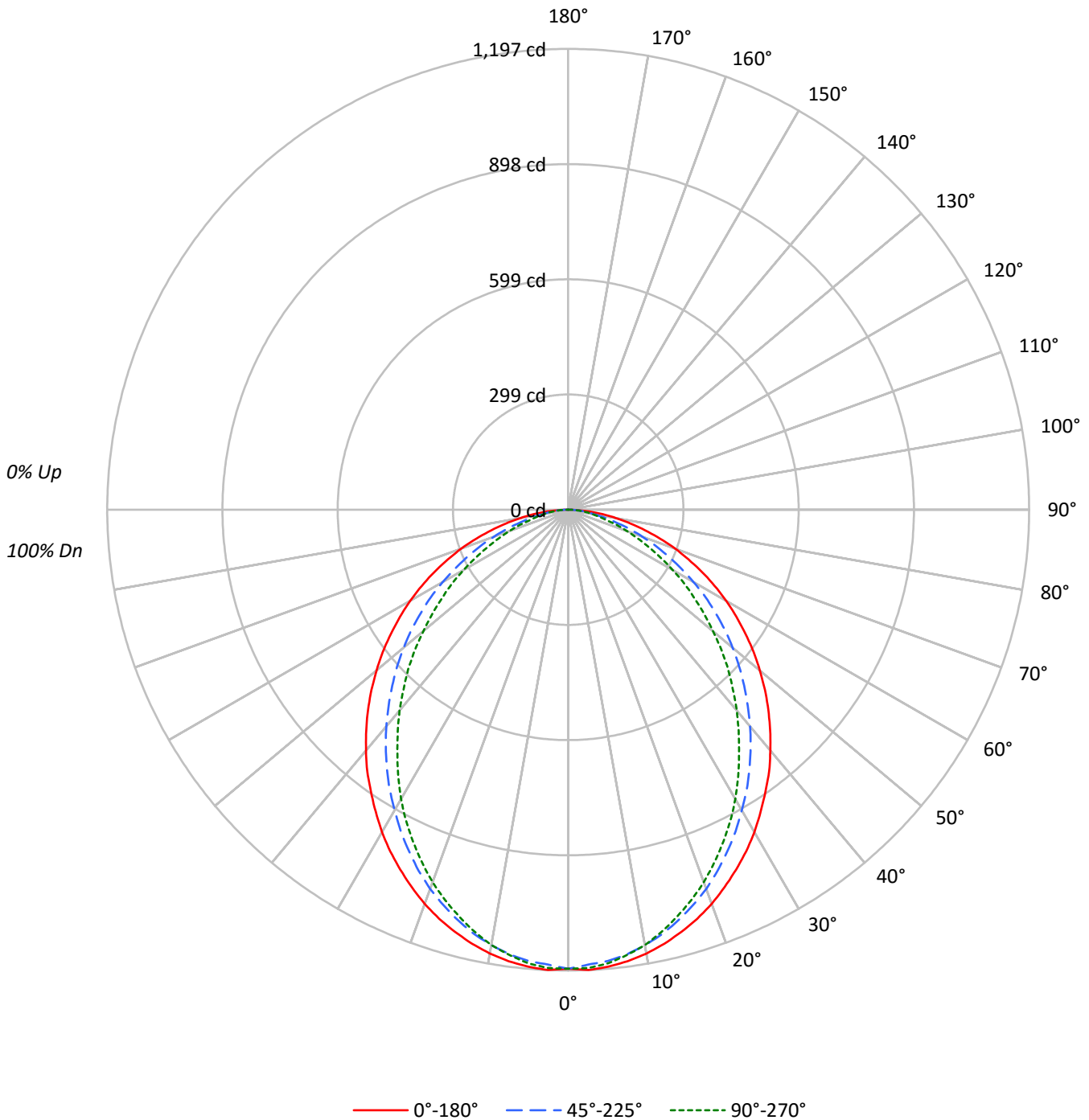
Input Watts (W): 23.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	10599	10599	10599
5°	10632	10499	10554
10°	10564	10366	10366
15°	10447	10163	10067
20°	10306	9914	9739
25°	10116	9598	9339
30°	9927	9250	8906
35°	9692	8910	8394
40°	9477	8526	7903
45°	9237	8119	7390
50°	8982	7704	6791
55°	8702	7228	6191
60°	8432	6681	5570
65°	8070	6034	4867
70°	7685	5328	4231
75°	7102	4444	3445
80°	6486	3471	3153
85°	5742	3325	3141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.1	4.0
10°-20°	313.2	11.1
20°-30°	454.1	16.2
30°-40°	517.6	18.4
40°-50°	503.6	17.9
50°-60°	423.1	15.0
60°-70°	294.7	10.5
70°-80°	152.2	5.4
80°-90°	41.1	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°	879.5	31.3
0°-40°	1397.1	49.7
0°-60°	2323.8	82.6
0°-90°	2811.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2811.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1192	1192	1192	1192	1192	
5°	1192	1188	1177	1185	1183	113
15°	1135	1126	1104	1103	1094	320
25°	1031	1012	979	964	952	475
35°	893	866	821	790	774	559
45°	735	700	646	605	588	567
55°	562	525	466	419	400	503
65°	384	347	287	246	231	380
75°	207	175	129	108	100	220
85°	56	36	33	31	31	64
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1192.4	1192.4	1192.4	1192.4	1192.4
2.5°	1196.8	1193.3	1182.8	1192.4	1191.6
5°	1191.6	1188.0	1176.6	1185.4	1182.8
7.5°	1182.8	1178.4	1165.2	1171.3	1166.9
10°	1170.4	1166.0	1148.4	1152.8	1148.4
12.5°	1154.6	1148.4	1129.1	1130.0	1122.9
15°	1135.2	1126.4	1104.4	1102.7	1093.9
17.5°	1114.1	1102.7	1077.2	1072.8	1063.1
20°	1089.5	1075.4	1048.1	1038.4	1029.6
22.5°	1061.3	1044.6	1014.7	1003.2	991.8
25°	1031.4	1012.0	978.6	964.5	952.2
27.5°	1000.6	977.7	941.6	924.0	911.7
30°	967.2	940.8	901.2	880.9	867.7
32.5°	930.2	903.8	862.4	837.8	821.1
35°	893.2	866.0	821.1	790.3	773.5
37.5°	857.2	826.4	777.9	746.3	726.9
40°	816.7	784.1	734.8	698.7	681.1
42.5°	776.2	742.7	689.9	652.1	632.7
45°	734.8	699.6	645.9	604.6	587.9
47.5°	692.6	657.4	601.9	558.8	539.5
50°	649.5	614.3	557.1	509.5	491.1
52.5°	607.2	570.3	513.1	464.7	445.3
55°	561.5	525.4	466.4	418.9	399.5
57.5°	517.5	479.6	422.4	374.0	358.2
60°	474.3	436.5	375.8	329.1	313.3
62.5°	428.6	390.7	330.9	286.0	271.9
65°	383.7	346.7	286.9	245.5	231.4
67.5°	337.9	304.5	246.4	206.8	195.4
70°	295.7	257.8	205.0	170.7	162.8
72.5°	250.8	217.4	166.3	138.2	132.0
75°	206.8	175.1	129.4	108.2	100.3
77.5°	166.3	135.5	97.7	80.1	80.1
80°	126.7	99.4	67.8	63.4	61.6
82.5°	89.8	64.2	50.2	46.6	45.8
85°	56.3	36.1	32.6	30.8	30.8
87.5°	27.3	16.7	16.7	15.8	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)