

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: P334257

Luminaire Tested: **S124RDW-S795D935-4F0-1E-UDD-F**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P334257
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: S124RDW-S795D935-4F0-1E-UDD-F
Description: DEFINE 4 REGRESSED DIRECT LED LUMINAIRE, FLUSH SATIN WHITE DIFFUSER
PENDANT/SURFACE/WALL MOUNT, 795 LUMENS PER FOOT
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2598.2 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.09 / 1.24
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Direct

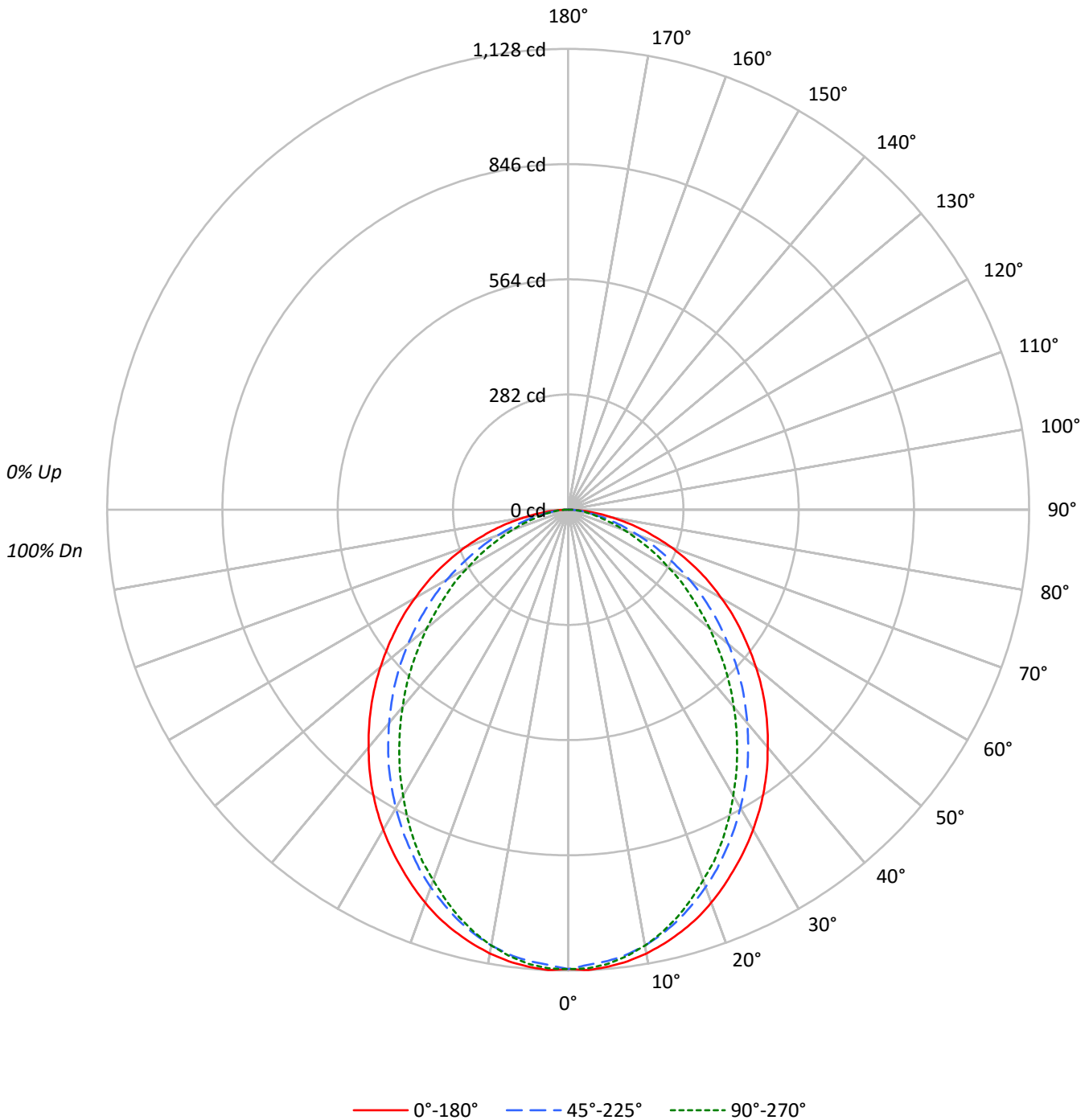
Input Watts (W): 26.3
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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				85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	74	72				72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62				62
4	84	73	65	58	82	72	64	58	69	62	57	67	61	56	65	60	56	54				54
5	78	66	57	51	76	65	56	50	62	55	50	61	54	49	59	53	49	47				47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41				41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37				37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33				33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30				30
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27				27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9078	9078	9078
5°	9098	8987	9043
10°	9041	8879	8879
15°	8938	8693	8628
20°	8795	8448	8292
25°	8613	8160	7954
30°	8435	7857	7528
35°	8239	7543	7103
40°	8003	7186	6642
45°	7785	6832	6173
50°	7537	6423	5677
55°	7271	5999	5139
60°	6978	5533	4587
65°	6711	4951	4046
70°	6321	4308	3434
75°	5827	3571	2792
80°	5081	2720	2562
85°	4307	2473	2316



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	4.1
10°-20°	294.8	11.3
20°-30°	425.6	16.4
30°-40°	482.4	18.6
40°-50°	465.8	17.9
50°-60°	387.2	14.9
60°-70°	267.3	10.3
70°-80°	135.0	5.2
80°-90°	34.3	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°	826.2	31.8
0°-40°	1308.6	50.4
0°-60°	2161.6	83.2
0°-90°	2598.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2598.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1123	1119	1109	1118	1116	107
15°	1069	1062	1040	1038	1032	301
25°	967	951	916	902	893	446
35°	836	808	765	736	721	523
45°	682	650	598	556	541	526
55°	517	482	426	381	365	462
65°	351	314	259	222	212	347
75°	187	155	114	95	90	197
85°	46	29	27	25	25	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.5	1124.5	1124.5	1124.5	1124.5
2.5°	1127.9	1124.5	1115.0	1124.5	1123.6
5°	1122.7	1119.3	1109.0	1117.6	1115.9
7.5°	1115.0	1111.6	1098.6	1104.7	1102.1
10°	1102.9	1098.6	1083.1	1086.6	1083.1
12.5°	1087.4	1082.3	1063.3	1065.1	1059.9
15°	1069.4	1061.6	1040.1	1038.4	1032.3
17.5°	1048.7	1037.5	1012.5	1008.2	999.6
20°	1023.7	1012.5	983.3	976.4	965.2
22.5°	996.2	983.3	951.4	940.2	931.6
25°	966.9	951.4	916.1	901.5	892.9
27.5°	936.8	917.8	880.8	863.6	851.5
30°	904.9	883.4	842.9	821.4	807.6
32.5°	871.3	846.4	804.2	778.3	765.4
35°	836.0	808.5	765.4	736.2	720.7
37.5°	799.0	770.6	723.2	691.4	675.9
40°	759.4	731.0	681.9	645.7	630.3
42.5°	721.5	691.4	639.7	602.7	586.3
45°	681.9	650.1	598.4	556.2	540.7
47.5°	641.4	608.7	555.3	511.4	494.2
50°	600.1	566.5	511.4	468.4	452.0
52.5°	557.9	525.2	468.4	424.5	407.3
55°	516.6	482.2	426.2	381.4	365.1
57.5°	476.1	440.0	384.9	339.2	327.2
60°	432.2	397.8	342.7	297.9	284.1
62.5°	392.6	356.5	299.6	259.2	248.8
65°	351.3	314.3	259.2	222.1	211.8
67.5°	308.2	272.9	221.3	188.6	176.5
70°	267.8	231.6	182.5	154.1	145.5
72.5°	224.7	192.9	147.2	124.0	116.2
75°	186.8	155.0	114.5	94.7	89.5
77.5°	147.2	119.7	85.2	71.5	69.7
80°	109.3	84.4	58.5	56.0	55.1
82.5°	76.6	54.2	42.2	40.5	39.6
85°	46.5	29.3	26.7	25.0	25.0
87.5°	19.8	12.9	12.1	11.2	12.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)